

# **DIABETES**

## **LITERATURE INDEX**

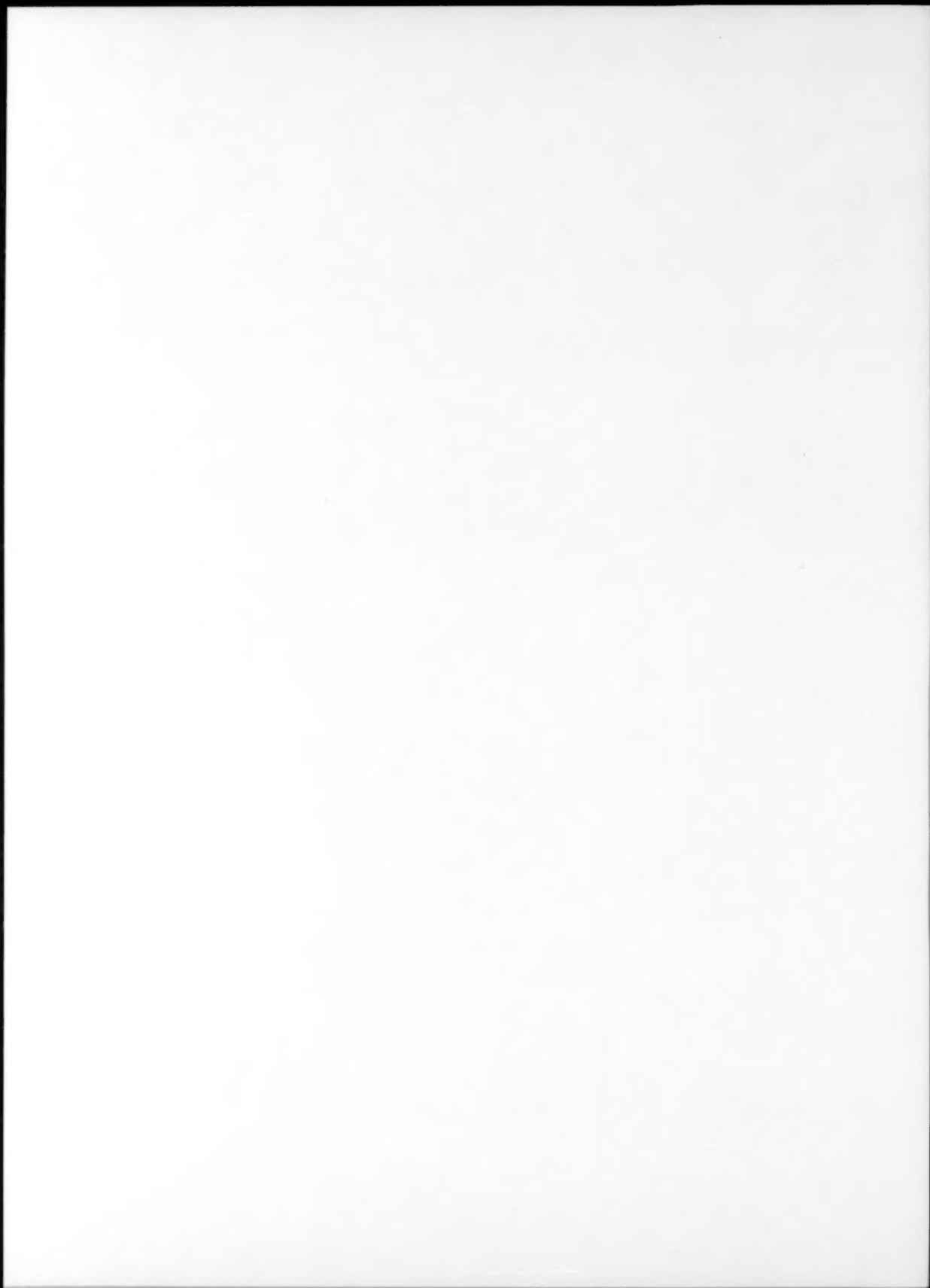
NATIONAL INSTITUTE OF ARTHRITIS,  
METABOLISM, AND DIGESTIVE DISEASES

U.S. DEPARTMENT OF  
HEALTH, EDUCATION, AND WELFARE

Public Health Service

National Institutes of Health

MAY 1978  
VOLUME 13, NO. 5





# DIABETES LITERATURE INDEX

(By Authors, Hierarchy, and by Keywords in the Title)

A monthly publication of the  
National Institute of Arthritis, Metabolism, and Digestive Diseases

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Prepared for the  
National Institute of Arthritis, Metabolism, and Digestive Diseases  
through the cooperative efforts of the  
University of Minnesota and the University of Rochester  
pursuant to a contract with the  
PHS, USDHEW, PH43-67-663

DHEW Publication No. (NIH) 78-303



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## PREFACE

*Diabetes Literature Index* is a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases which has been prepared from MEDLARS (Medical Literature Analysis and Retrieval System) tapes furnished by the National Library of Medicine. This specialized information medium is being published to fill an existing great need in the field of diabetes and to assist the Institute in meeting its obligations to foster and support laboratory and clinical research into the nature, causes, and therapy for diabetes. Publication of *Diabetes Literature Index* makes available an index of all current scientific papers relevant to this field from the world literature.

It is hoped that the issuing of *Diabetes Literature Index* under the auspices of the National Institute of Arthritis, Metabolism, and Digestive Diseases will provide a much needed current awareness tool to scientists and will facilitate greater integration of research and clinical efforts in this field. *Diabetes Literature Index* has been published monthly since January 1966 and is cumulated at the end of each calendar year.

This publication is available free to National Institutes of Health grantees and contractors working in the field of diabetes, and libraries of medical schools. Requests from these *qualified* individuals to receive free copies of this publication must include their grant or contract number and the title of their project. These requests as well as address changes and other communications from these qualified recipients of free copies should be addressed to:

Scientific Communications Office  
Diabetes Literature Index  
National Institute of Arthritis,  
Metabolism, and Digestive Diseases  
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Bethesda, Maryland 20014

*Other individuals and other libraries* may receive this publication by subscribing *directly* to the Superintendent of Documents. Subscription price per year in the United States, Canada, and Mexico, \$26.50 (cumulative index issue not included; will be on sale, price to be determined later); foreign, \$6.65 additional; and \$2.25 for a single copy. Payment is required in advance, and check or money order should be made payable to the Superintendent of Documents. Address changes for subscribers should be sent *directly* to:

Superintendent of Documents  
U.S. Government Printing Office  
Washington, D.C. 20402

The Secretary of the Department of Health, Education, and Welfare has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through April 30, 1978

## EDITORIAL NOTE

*Diabetes Literature Index*, a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases (NIAMDD), was brought about through the cooperative efforts of two divisions of the National Institutes of Health (NIAMDD and the National Library of Medicine), a professional society (American Diabetes Association), three Universities (University of Minnesota, University of Rochester, and Case Western Reserve University) as well as a number of individual scientists. In this rather unique cooperative project, initiated in 1958, duplication of effort has been reduced to a minimum. The digital information generated from the original input of bibliographic citations to the National Library of Medicine's MEDLARS system is processed by computer in several different ways and ultimately used to compose the final printed pages of this *Diabetes Literature Index*.

Each month the MEDLARS magnetic tape furnished by the National Library of Medicine (NLM) is used for identification of the diabetes related literature. All bibliographic citations classified under subject headings which we have designated as Priority I, represent articles that are 100% diabetes-related; they are automatically copied onto a new magnetic tape and constitute over seventy percent of the citations appearing in this index. The citations appearing under Priority II and III are subject headings which include both diabetes-related and unrelated articles; these are printed on cards by the computer. The diabetes related citations are identified manually and the corresponding digital information is added to the next month's Priority I magnetic tape.

In the selection of this bibliography, diabetes-related literature has been defined in a rather arbitrary but broad, comprehensive manner with a view toward providing the widest possible coverage of related areas. To this end the following subjects have been included: the Islets of Langerhans in the pancreas, including their structure and pathologic alterations; insulin, its properties, assay, synthesis, release or degradation; the direct and indirect effects of insulin on target organs; blood glucose level, hyper- and hypo-glycemia; insulin antibodies and insulin resistance; insulin allergy; recent developments in intermediary metabolism; experimental and clinical aspects of diabetes, signs, symptoms, diagnosis, treatment, complications, and associated condi-

tions. Also included are other hormones and agents whose effects are similar, opposite, synergistic or antagonistic to insulin, either in their primary or secondary effects on target organs. It should be noted that there are undoubtedly some omissions due to the empirical definition of the diabetes-related literature which was adopted and also to the difficulties attendant in preparing such a large-scale bibliography by machine.

The *Diabetes Literature Index* is published in three formats: a hierarchical subject index, a key word in title index, and an author index. The magnetic tape version of these indexes, prepared at the University of Minnesota, is used to generate the copy for offset printing by the Government Printing Office on their Linotron.

*Hierarchical Subject Index:* This index differs from *Index Medicus* in that related terms are grouped together in a hierarchical relationship. Thus, all citations which are indexed under blood sugar, glucose tolerance, hyperglycemia, hypoglycemia, and glycosuria are grouped under the general heading "blood sugar, urine sugar and related topics." In both the *Diabetes Key Word Index* and in *Index Medicus* these terms are arranged alphabetically, and the corresponding citations are distributed at many different page locations. In some instances where only a few citations appear under several similar subject headings, these are grouped together under a more generic term; at times, a new non-MEDLARS index term is created to cover these groupings of subject headings. In some instances where many citations appear under a single subject heading, these are subdivided by using subheadings.

Although the hierarchical subject index is, in a sense, a miniaturized version of *Index Medicus* (dealing with the core diabetes literature) it provides a much greater depth of indexing. Many relevant citations included in the *Diabetes Literature Index* do not appear under the corresponding subject headings in *Index Medicus*; because of space limitations, only two or three of the ten or more index terms included on the MEDLARS magnetic tape are used in the printed version of *Index Medicus*. At times the reason why a given citation appears under a specific subject heading may not be apparent from the article title. However, examination of the list of index terms for this citation (included in the Author Index under

the principal author) will give the basis for this inclusion.

Beginning with the January 1971 issue, two sections are included in the Hierarchical Subject Index. In *Section 1*, "Diabetes Mellitus and Related Topics," the major subdivisions include the MEDLARS terms: Islets of Langerhans, Pancreas, Insulin, Glucagon, Blood and Urine Sugar; the subsection on "Diabetes," (Section 1.F) is extensively subdivided and many subheadings are used. In *Section 2*, "Endocrinology" is divided into subsections dealing with the individual endocrine glands. Hierarchical subject indexes related to Biochemistry and the organ systems (included in the experimental issues, published in February and March, 1969) are not included at this time; terms related to these subjects are, however, included in the Keyword Index.

A list of the subject headings included in the tree structure of the hierarchy (with their corresponding index numbers) and an alphabetic cross index of these subject headings is printed immediately preceding the Hierarchical Subject Index.

**Key Word Index:** For all of the diabetes-related literature chosen, key words in the title are identified by the computer and an expanded magnetic tape is prepared, listing the complete bibliographic citation under each key word. Most editorial decisions are made by the computer-disk-look-up-program using a master list of terms. Trivial words are deleted and specific word combinations are also selected. Abbreviations and word variant forms are replaced by the more commonly used key word. Inconsistencies between the British and American spellings are eliminated. In no case, however, is a change made within the title itself. Words which have not ap-

peared previously in the system are identified by the computer program and flagged for human decision.

With the publication of the hierarchical subject index, the key word index has been shortened. Diabetes is not included as a term in the key word index as it is covered in great detail in the hierarchical subject index. Although users may find the hierarchical subject index more useful for coverage of their broad interests, the key word index is advantageous in locating citations dealing with very specific terms—for example those relating to biochemistry or the organ systems. The key word index is of special value in locating citations dealing with the frontiers of diabetes research, for new terms appearing in the title are immediately included in the key word index.

**Author Index:** Because of space limitations, the printed version of *Index Medicus* excludes all but the first three authors in multiple author publications. However since the last author is often the best known, this name may be the most useful for reference or retrieval; therefore, all authors are included in the Diabetes Literature Author Index. These are automatically identified by the computer program and an alphabetized magnetic tape is prepared in which the complete bibliographic citation is included under each author. In addition, all of the index terms used by the NLM for each citation are listed under the principal author, thus providing an overview of the subject content of the article.

Users planning to systematically cover all articles appearing in a given month may do so by scanning the author index, limiting their perusal to the principal author, i.e., those citations which contain the MEDLARS index terms.

## Arrangement of the Hierarchical Index

1	SECTION 1. DIABETES MELLITUS AND RELATED TOPICS	1.E.3.5	HYPERGLYCEMIA, DRUG THERAPY
1.A	ISLANDS OF LANGERHANS	1.E.3.6	HYPERGLYCEMIA, ETIOLOGY
1.A.1	ISLANDS OF LANGERHANS, ANATOMY RELATED	1.E.3.7	HYPERGLYCEMIA, METABOLISM
1.A.2	ISLANDS OF LANGERHANS, BIOCHEMISTRY RELATED	1.E.3.8	HYPERGLYCEMIA, PHYSIOPATHOLOGY
1.A.3	ISLANDS OF LANGERHANS, PHYSIOLOGY RELATED	1.E.3.9	HYPERGLYCEMIA, URINE
1.A.4	ISLANDS OF LANGERHANS, PHARMACOLOGY RELATED	1.E.4	GLYCOSURIA
1.A.5	ISLANDS OF LANGERHANS, PATHOLOGY RELATED	1.E.4.1	GLYCOSURIA, CHEMICALLY INDUCED
1.B	PANCREAS	1.E.4.2	GLYCOSURIA, COMPLICATIONS
1.B.1	PANCREAS, ANATOMY RELATED	1.E.4.3	GLYCOSURIA, DIAGNOSIS
1.B.2	PANCREAS, BIOCHEMISTRY RELATED	1.E.4.4	GLYCOSURIA, DRUG THERAPY
1.B.3	PANCREAS, PHYSIOLOGY RELATED	1.E.4.5	GLYCOSURIA, ENZYMOLOGY
1.B.4	PANCREAS, PHARMACOLOGY RELATED	1.E.4.6	GLYCOSURIA, ETIOLOGY
1.B.5	PANCREAS, PATHOLOGY RELATED	1.E.4.7	GLYCOSURIA, METABOLISM
1.B.6	PANCREAS, SURGERY RELATED	1.E.4.8	GLYCOSURIA, OCCURRENCE
1.B.6.1	PANCREAS, TRANSPLANTATION	1.E.5	GLYCOSURIA, RENAL
1.B.6.2	PANCREATECTOMY	1.E.6	HYPOLYCEMIA
1.C	INSULIN	1.E.6.1	HYPOLYCEMIA, BLOOD
1.C.1	INSULIN, BIOCHEMISTRY RELATED	1.E.6.2	HYPOLYCEMIA, CHEMICALLY INDUCED
1.C.1.1	INSULIN, ISOLATION AND PURIFICATION	1.E.6.3	HYPOLYCEMIA, COMPLICATIONS
1.C.1.2	INSULIN, ANALYSIS	1.E.6.4	HYPOLYCEMIA, DIAGNOSIS
1.C.1.3	INSULIN, CHEMICAL SYNTHESIS	1.E.6.5	HYPOLYCEMIA, DRUG THERAPY
1.C.1.4	INSULIN, BIOSYNTHESIS	1.E.6.6	HYPOLYCEMIA, ETIOLOGY
1.C.1.5	INSULIN, METABOLISM	1.E.6.7	HYPOLYCEMIA, METABOLISM
1.C.1.6	INSULIN, BLOOD	1.E.6.8	HYPOLYCEMIA, PHYSIOPATHOLOGY
1.C.1.7	INSULIN, URINE	1.E.6.9	HYPOLYCEMIA, THERAPY
1.C.2	INSULIN, PHYSIOLOGY RELATED	1.F	DIABETES
1.C.2.1	INSULIN, PHYSIOLOGY	1.F.1	ALLOXAN DIABETES (SEE SEC. 1.F.10.2)
1.C.2.2	INSULIN, SECRETION	1.F.2	DIABETES MELLITUS
1.C.3	INSULIN, PHARMACOLOGY RELATED	1.F.2.1	DIABETES MELLITUS, JUVENILE
1.C.3.1	INSULIN, PHARMACODYNAMICS	1.F.3	DIABETES, BIOCHEMISTRY RELATED
1.C.3.2	INSULIN, ANTAGONISTS AND INHIBITORS	1.F.3.1	DIABETES, METABOLISM
1.C.3.3	INSULIN, ADVERSE EFFECTS	1.F.3.2	DIABETES, ENZYMOLOGY
1.C.4	HYPERINSULINISM	1.F.3.3	DIABETES, BLOOD
1.C.4.1	INSULIN COMA	1.F.3.4	DIABETES, URINE
1.C.5	INSULIN ANTIBODIES	1.F.4	DIABETES, PHYSIOPATHOLOGY
1.C.6	INSULIN RESISTANCE	1.F.5	DIABETES, IMMUNOLOGY
1.C.7	INSULIN, THERAPY RELATED	1.F.6	DIABETES COMPLICATIONS AND PATHOLOGY
1.C.7.1	INSULIN, DIAGNOSTIC USE	1.F.6.1	DIABETIC KETOACIDOSIS
1.C.7.2	INSULIN ADMINISTRATION AND DOSAGE (SEE 1.F.9.3.1)	1.F.6.1.1	ACIDOSIS, DIABETIC
1.C.7.3	INSULIN, THERAPEUTIC USE (SEE 1.F.9.3.2)	1.F.6.1.2	DIABETIC COMA
1.C.8	INSULIN, HISTORY	1.F.6.2	DIABETIC ANGIOPATHIES
1.D	GLUCAGON	1.F.6.3	DIABETIC NEPHROPATHIES
1.D.1	GLUCAGON, BIOCHEMISTRY RELATED	1.F.6.4	DIABETIC NEUROPATHIES
1.D.1.1	GLUCAGON, ANALYSIS	1.F.6.5	DIABETIC RETINOPATHY
1.D.1.2	GLUCAGON, METABOLISM	1.F.6.6	OTHER COMPLICATIONS OF DIABETES
1.D.1.3	GLUCAGON, BLOOD	1.F.6.7	DIABETES PATHOLOGY
1.D.2	GLUCAGON, PHYSIOLOGY RELATED	1.F.6.8	PREGNANCY IN DIABETES
1.D.2.1	GLUCAGON, PHYSIOLOGY	1.F.7	DIABETES OCCURRENCE, ETIOLOGY AND RELATED TERMS
1.D.2.2	GLUCAGON, SECRETION	1.F.7.1	DIABETES, OCCURRENCE
1.D.3	GLUCAGON, PHARMACOLOGY RELATED	1.F.7.2	DIABETES, ETIOLOGY
1.D.3.1	GLUCAGON, ADMINISTRATION AND DOSAGE	1.F.7.3	DIABETES, CONGENITAL
1.D.3.2	GLUCAGON, PHARMACODYNAMICS	1.F.7.4	DIABETES, FAMILIAL AND GENETIC
1.D.3.3	GLUCAGON, TOXICITY	1.F.7.5	PREDIABETIC STATE
1.D.4	GLUCAGON, THERAPY RELATED	1.F.8	DIABETES, DIAGNOSIS RELATED
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1.D.4.2	GLUCAGON, THERAPEUTIC USE	1.F.8.2	DIABETES, DIAGNOSIS
1.E	BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS	1.F.9	DIABETES, THERAPY RELATED
1.E.1	BLOOD SUGAR	1.F.9.1	DIABETES, PREVENTION AND CONTROL
1.E.1.1	BLOOD SUGAR, ANALYSIS	1.F.9.2	DIABETES, NUTRITION AND DIET THERAPY
1.E.1.2	BLOOD SUGAR, BIOSYNTHESIS	1.F.9.2.1	OBESITY IN DIABETES
1.E.1.3	BLOOD SUGAR, METABOLISM	1.F.9.2.2	GLUCOSE, THERAPEUTIC USE
1.E.1.4	BLOOD SUGAR, PHARMACODYNAMICS	1.F.9.2.3	DIET
1.E.2	GLUCOSE TOLERANCE TEST	1.F.9.2.4	DIABETIC DIET
1.E.3	HYPERGLYCEMIA	1.F.9.2.5	DIETARY CARBOHYDRATES
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## Arrangement of the Hierarchical Index

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1.F.9.3.2	INSULIN, THERAPEUTIC USE	2.G.3	CHROMAFFIN SYSTEM
1.F.9.4	DIABETES, ANTIDIABETICS AND THERAPY	2.G.4	PINEAL BODY
1.F.9.4.1	ANTIDIABETICS	2.G.5	PITUITARY-ADRENAL SYSTEM
1.F.9.4.2	TOLBUTAMIDE	2.G.6	SECRETORY RATE
1.F.9.4.3	OTHER SULFONYL-UREA DERIVATIVES		
1.F.9.4.4	PHENFORMIN		
1.F.9.4.5	OTHER BIGUANIDES		
1.F.9.5	DIABETES DRUG THERAPY		
1.F.9.6	DIABETES THERAPY		
1.F.9.7	DIABETES, RADIOGRAPHY		
1.F.9.8	DIABETES, SURGERY		
1.F.9.9	DIABETES, MORTALITY		
1.F.10	DIABETES, EXPERIMENTAL		
1.F.10.1	DIABETES, CHEMICALLY INDUCED		
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1.F.10.2.3	ALLOXAN DIABETES, ENZYMOLOGY		
1.F.10.2.4	ALLOXAN DIABETES, METABOLISM		
1.F.10.2.5	ALLOXAN DIABETES, PATHOLOGY		
1.F.10.2.6	ALLOXAN DIABETES, PHYSIOPATHOLOGY		
1.F.11	DIABETES, VETERINARY		
1.F.12	DIABETES, HISTORY		
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2.A.2	INSULIN (SEE SEC. 1.C)		
2.A.3	GLUCAGON (SEE SEC. 1.D)		
2.B	ADRENAL GLANDS		
2.B.1	ADRENAL CORTEX		
2.B.2	ADRENAL CORTEX HORMONES		
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2.B.2.1.1	CORTISONE		
2.B.2.1.2	HYDROCORTISONE		
2.B.2.1.3	OTHER GLUCOCORTICOIDS		
2.B.2.2	MINERALOCORTICOIDS		
2.B.3	ADRENAL MEDULLA		
2.B.3.1	EPINEPHRINE		
2.B.3.2	NOREPINEPHRINE		
2.B.4	ADRENALECTOMY		
2.B.5	ADRENAL DISORDERS		
2.C	THYROID GLAND		
2.C.1	THYROID HORMONES		
2.C.2	THYROID ANTAGONISTS		
2.C.3	THYROID DISORDERS		
2.D	PARATHYROID GLANDS		
2.E	PITUITARY GLAND		
2.E.1	PITUITARY HORMONES, ANTERIOR		
2.E.1.1	CORTICOTROPIN		
2.E.1.2	SOMATOTROPIN		
2.E.1.3	THYROTROPIN		
2.E.1.4	GONADOTROPHINS, PITUITARY		
2.E.2	PITUITARY HORMONES, POSTERIOR		
2.E.3	PITUITARY HORMONES, INTERMEDIATE		
2.E.4	PITUITARY HORMONE RELEASING FACTORS		
2.E.5	HYPOPHYSECTOMY		
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2.F	GONADS		
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2.F.3	SEX HORMONES		
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2.F.4	GONADAL DISORDERS		
2.G	OTHER ENDOCRINES AND RELATED TERMS		
2.G.1	ENDOCRINE GLANDS		
2.G.2	HORMONES		
2.G.2.1	GASTROINTESTINAL HORMONES		
2.G.2.2	PROSTAGLANDINS		
2.G.2.3	HORMONES, ECTOPIC		
2.G.2.4	PLACENTAL HORMONES		
2.G.2.5	RELAXIN		



## MEDLARS Terms Included in Hierarchical Index

CETOXEHAMIDE  
 ACIDOSIS  
 ACIDOSIS, DIABETIC  
 ACROMEGALY  
 ADDISON'S DISEASE  
 ADRENAL CORTEX HORMONES  
 ADRENAL GLAND HYPERFUNCTION  
 ADRENAL GLAND HYPOFUNCTION  
 ADRENAL GLANDS  
 ADRENAL MEDULLA  
 ADRENALECTOMY  
 ADRENOGENITAL SYNDROME  
  
 ALDOSTERONE  
 ALLOXAN DIABETES  
 BLOOD  
 DRUG THERAPY  
 ENZYMOLOGY  
 METABOLISM  
 PATHOLOGY  
 PHYSIOPATHOLOGY  
  
 AMNIOCENTESIS  
 ANABOLIC STEROIDS  
 ANDROGENS  
 ANDROSTERONE  
  
 ANTIHYPERTENSIVES  
 APGAR SCORE  
 ARTERIOSCLEROSIS  
 BETAMETHASONE  
 BIGUANIDES  
 BLOOD SUGAR  
 ANALYSIS  
 BIOSYNTHESIS  
 METABOLISM  
 PHARMACODYNAMICS  
 CALCITONIN  
 CARBUTAMIDE  
 CHLORMADINONE  
 CHLOROTRIANSENE  
 CHLORPROPAMIDE  
 CHOLECYSTOKININ  
 CHOLESTEROL, DIETARY  
 CHROMAFFIN SYSTEM  
 CONTRACEPTIVES, ORAL  
 CORONARY DISEASE  
 CORPUS LUTEUM  
 CORPUS LUTEUM HORMONES  
 CORTICOSTERONE  
 CORTICOTROPIN  
 CORTICOTROPIN RELEASING HORMONE  
 CORTISONE  
 CRETINISM  
 CUSHING'S SYNDROME  
 CYCLAMATES  
 CYTOCHALASIN B  
 CYTOCHALASINS  
 DEHYDROEPIANDROSTERONE  
  
 DESOXYCORTICOSTERONE  
 DEXAMETHASONE  
 DIABETES INSIPIDUS  
 DIABETES MELLITUS  
 BLOOD  
 CHEMICALLY INDUCED  
 COMPLICATIONS  
 CONGENITAL  
 DIAGNOSIS  
 DRUG THERAPY  
 ENZYMOLOGY  
 ETIOLOGY  
 FAMILIAL & GENETIC  
 HISTORY  
 IMMUNOLOGY  
 METABOLISM  
 MORTALITY  
 OCCURRENCE

[illegible]

PATHOLOGY  
 PHYSIOPATHOLOGY  
 PREVENTION & CONTROL  
 RADIOGRAPHY  
 SURGERY  
 THERAPY  
 URINE  
 VETERINARY  
 DIABETES MELLITUS, JUVENILE  
 BLOOD  
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## SECTION 1. DIABETES MELLITUS AND RELATED TOPICS

### 1.A ISLANDS OF LANGERHANS

[ISOLOGOUS TRANSPLANTATION OF ISLETS OF LANGERHANS INTO RAT LIVER. LIGHT AND ELECTRON MICROSCOPY FINDINGS (AUTHORS TRANSL.) Ries P, Rumpf KD, Thiele J *Verh Dtsch Ges Pathol* 61: 103-7, 1977 (Ger) DL/78MAY502

#### 1.A.1 ISLANDS OF LANGERHANS, ANATOMY RELATED

IMMUNOHISTOCHEMICAL AND ULTRASTRUCTURAL IDENTIFICATION OF THE PANCREATIC POLYPEPTIDE-PRODUCING CELL (PP-CELL) IN THE HUMAN PANCREAS. Baetens D, De Mey J, Gepts W *Cell Tissue Res* 185: 239-46, 13 Dec 77 (Eng) DL/78MAY242

[TRANSPLANTATION OF PANCREATIC ISLETS (AUTHORS TRANSL.) Pipeleers DG, Pipeleers-Marichal M *Diabete Metab* 3: 273-80, Dec 77 (Fre) DL/78MAY292

A CYTOMORPHOLOGICAL STUDY OF THE ENDOCRINE PANCREAS OF SOME INDIAN BIRDS. Guha B, Ghosh A *Gen Comp Endocrinol* 34: 38-44, Jan 78 (Eng) DL/78MAY309

CORTICOTROPIN-LIKE PEPTIDES IN CENTRAL NERVES AND IN ENDOCRINE CELLS OF GUT AND PANCREAS. Larsson L-I *Lancet* 2: 1321-3, 24-31 Dec 77 (Eng) DL/78MAY377

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VASOMOTOR REACTIONS IN THE ISLETS AFFECTING THE BLOOD GLUCOSE LEVELS. Bunnag SC, Warner NE, Bunnag S *Bibl Anat* 445-9, 1977 (Eng) DL/78MAY580

#### 1.A.2 ISLANDS OF LANGERHANS, BIOCHEMISTRY RELATED

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AN ALTERNATIVE TO ALLOSTERIC INTERACTIONS AS CAUSES OF SIGMOID DOSE VERSUS RESPONSE CURVES. APPLICATION TO GLUCOSE-INDUCED SECRETION OF INSULIN. Desimone JA, Price S *Biochim Biophys Acta* 538: 120-6, 3 Jan 78 (Eng) DL/78MAY217

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STIMULATION BY GASTRIC INHIBITORY POLYPEPTIDE OF INSULIN AND GLUCAGON SECRETION BY RAT ISLET CULTURES. Fujimoto WY, Ensink JW, Merchant FW, Williams RH, Smith PH, Johnson DG *Proc Soc Exp Biol Med* 157: 89-93, Jan 78 (Eng) DL/78MAY432

EFFECT OF FATTY ACIDS ON ISOLATED OVINE PANCREATIC ISLETS. Jordan HN, Phillips RW *Am J Physiol* 234: e162-7, Feb 78 (Eng) DL/78MAY546

[THE IMMUNOFLOUORESCENCE-MICROSCOPICAL EVIDENCE OF INSULIN AND GLUCAGON IN TRANSPLANTED ISOLATED LANGERHANS ISLETS IN DIABETIC RATS AND DOGS (AUTHORS TRANSL.) Dorn A, Lorenz D, Koch G *Anat Anz* 142: 151-8, 1977 (Ger) DL/78MAY550

[MORPHOFUNCTIONAL CHANGES IN THE INSULAR APPARATUS OF THE PANCREAS FOLLOWING HYPOPHYSECTOMY AND ADMINISTRATION OF SOMATOTROPIC HORMONE] Shevchuk IA, Kovtuniak NA, Iarmolchuk GM, Panchuk NN *Arkh Anat Gistol Embriol* 73: 68-72, Dec 77 (Rus) DL/78MAY566

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[SENSITIVITY OF THE CENTRAL NUCLEI OF THE VAGUS TO INSULIN DEFICIENCY IN RATS (HISTOENZYMOLOGIC STUDY)] Akmaev IG, Rabkina AE, Fidelina OV *Bull Eksp Biol Med* 84: 734-7, Dec 77 (Rus) DL/78MAY223

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EFFECTS OF PREGNANCY ON THE GLUCOSE-INDUCED INSULIN RELEASE FROM CULTIVATED PANCREATIC ISLETS OF THE RAT. Ziegler B, Ziegler M, Fiedler H *Experientia* 34: 138-9, 15 Jan 78 (Eng) DL/78MAY274

[AGING AND ENDOCRINE PANCREAS (AUTHORS TRANSL.) Nonaka K, Tarui S *Nippon Naibunji Gakkai Zasshi* 53: 1321-7, 20 Dec 77 (Jpn) DL/78MAY280

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AN IMPROVED TECHNIQUE FOR THE RAPID CONTINUOUS MEASUREMENT OF WHOLE BLOOD GLUCOSE, SUITABLE FOR CLINICAL APPLICATION IN AN ARTIFICIAL ENDOCRINE PANCREAS. Albisser AM, Leibel BS, Johnson W, Denoga A, Botz CK, Marliss EB *Med Prog Technol* 5: 141-8, 15 Dec 77 (Eng) DL/78MAY390

[ROLE OF B-CELL ADRENERGIC RECEPTORS OF THE PANCREATIC INSULAR APPARATUS IN INSULIN SECRETION (REVIEW)] Genes SG, Poltorak VV *Patol Fiziol Eksp Ter* 78-84, Nov-Dec 77 (Rus) DL/78MAY412

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EFFECT OF QUINALDIC ACID AND ITS RELATIVES ON INSULIN-RELEASE FROM ISOLATED LANGERHANS ISLETS. Okamoto H *Acta Vitaminol Enzymol (Milano)* 29: 227-31, 1975 (Eng) DL/78MAY526

#### 1.A.4 ISLANDS OF LANGERHANS, PHARMACOLOGY RELATED



## 1.B PANCREAS

EFFECTS OF PHLORETIN AND DEXTRAN-LINKED PHLORETIN ON PANCREATIC ISLET METABOLISM AND INSULIN RELEASE. Ashcroft SJ, Nino S *Biochim Biophys Acta* 538: 334-42, 18 Jan 78 (Eng) DL/78MAY220

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### 1.A.5 ISLANDS OF LANGERHANS, PATHOLOGY RELATED

[TOPICAL DIAGNOSIS OF NESIDIOMA BY ESTIMATING INSULIN WITHDRAWN AT DIFFERENT LEVELS (AUTHORS TRANSL)] Renker B, Kandrach M, Matejcek E, Grekov P *Cas Lek Cesk* 116: 1470-2, 25 Nov 77 (Slo) DL/78MAY241

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SPONTANEOUS ALTERATIONS IN THE PANCREAS OF THE AGING SYRIAN GOLDEN HAMSTER. Takahashi M, Pour P *J Natl Cancer Inst* 60: 355-64, Feb 78 (Eng) DL/78MAY345

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SOMATOSTATIN-TOLBUTAMIDE TEST IN HYPERINSULINISM DUE TO BETA-CELL HYPERPLASIA [LETTER] Del Arbol JL, Alonso JJ, Yanez AP *Lancet* 1: 281-2, 4 Feb 78 (Eng) DL/78MAY376

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UNIPHASIC INSULIN-SECRETORY RESPONSE IN THE PANCREATIC VEIN OF DOGS AFTER AN ENTERIC GLUCOSE LOAD. Chacra AR, Fujita Y, Herron AL Jr, Seltzer HS *Diabetes* 27: 21-6, Jan 78 (Eng) DL/78MAY297

### 1.B.2 PANCREAS, BIOCHEMISTRY RELATED

COMPARISON OF THE EFFECTS OF CARBAMOYLCHOLINE, PANCREOZYMIN AND SECRETIN ON LIPID METABOLISM IN THE RAT PANCREAS, INCUBATED IN THE PRESENCE OF [3H] H<sub>2</sub>O, [U-14C] GLUCOSE, OR [1-14C] ACETATE [PROCEEDINGS]. Calderon P, Furnelle J, Christophe J *Arch Int Physiol Biochim* 85: 389-90, Apr 77 (Eng) \*DL/78MAY181

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[AUTOTRANSPLANTATION OF A PANCREAS SEGMENT IN THE DOG] Bartos V, Kolc J, Nozickova M, Matejkova M, Malek P *Rozhl Chir* 56: 340-3, May 77 (Cze) \*DL/78MAY106

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## 1.B.4 PANCREAS, PHARMACOLOGY RELATED

COMPARISON OF THE EFFECT OF SOMATOSTATIN ON GASTROINTESTINAL FUNCTION IN THE CONSCIOUS AND ANAESTHETIZED CAT AND ON THE ISOLATED CAT PANCREAS. Albinus M, Blair EL, Case RM, Coy DH, Gomez-Pan A, Hirst BH, Reed JD, Schally AV, Shaw B, Smith PA, Smy JR *J Physiol (Lond)* 269: 77-91, Jul 77 (Eng) \*DL/78MAY70

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### 1.B.6.1 PANCREAS, TRANSPLANTATION

[AUTOTRANSPLANTATION OF A PANCREAS SEGMENT IN THE DOG] Bartos V, Kolc J, Nozickova M, Matejkova M, Malek P *Rozhl Chir* 56: 340-3, May 77 (Cze) \*DL/78MAY106

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## 1.C.1 INSULIN, BIOCHEMISTRY RELATED

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[TOPICAL DIAGNOSIS OF NESIDIOMA BY ESTIMATING INSULIN WITHDRAWN AT DIFFERENT LEVELS (AUTHORS TRANSL)] Renker B, Kandrar M, Matejcek E, Grekov P *Cas Lek Cesk* 116: 1470-2, 25 Nov 77 (Slo) DL/78MAY241

[THE IMMUNOFLOURESCENCE-MICROSCOPICAL EVIDENCE OF INSULIN AND GLUCAGON IN TRANSPLANTED ISOLATED LANGERHANS ISLETS IN DIABETIC RATS AND DOGS (AUTHORS TRANSL)] Dorn A, Lorenz D, Koch G *Anat Anz* 142: 151-8, 1977 (Ger) DL/78MAY550

### 1.C.1.3 INSULIN, CHEMICAL SYNTHESIS

### 1.C.1.4 INSULIN, BIOSYNTHESIS

ISOLATION AND PARTIAL PURIFICATION OF CATFISH PANCREATIC ISLET MESSENGER RNA. Permutt MA, Boime I, Chyn R, Goldford M *Biochemistry* 17: 537-43, 7 Feb 78 (Eng) DL/78MAY216

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### 1.C.1.5 INSULIN, METABOLISM

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# 1.D GLUCAGON

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# 1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

## 1.D.3.1 GLUCAGON, ADMINISTRATION AND DOSAGE

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# 1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

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- 1.E.2 GLUCOSE TOLERANCE TEST**
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- DISTRIBUTION OF VARIOUS CORONARY RISK FACTORS IN AN URBAN GENERAL PRACTICE.** Grieve RJ *NZ Med J* 86: 178-81, 24 Aug 77 (Eng) DL/78MAY407
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## 1.E.3.4 HYPERGLYCEMIA, DIAGNOSIS

## 1.E.3.5 HYPERGLYCEMIA, DRUG THERAPY

## 1.E.3.6 HYPERGLYCEMIA, ETIOLOGY

**HYPERGLYCEMIA, HYPOINSULINEMIA, AND HYPERGLUCAGONEMIA IN ACUTE WATER**

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**NEWER ASPECTS OF DIABETES.** Malone JJ *Adv Pediatr* 24: 1-41, 1977 (Eng) [189 ref.] DL/78MAY523

## 1.E.3.7 HYPERGLYCEMIA, METABOLISM

## 1.E.3.8 HYPERGLYCEMIA, PHYSIOPATHOLOGY

**INHIBITION OF L-DOPA INDUCED GROWTH HORMONE RELEASE IN NORMAL AND DIABETIC SUBJECTS BY GLUCOSE ADMINISTRATION.** Vigas M, Klimes I, Jurcovicova J, Kolesar P, Repcejkova-Jezova D *Diabete Metab* 3: 257-8, Dec 77 (Eng) DL/78MAY288

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## 1.E.4.2 GLYCOSURIA, COMPLICATIONS

## 1.E.4.3 GLYCOSURIA, DIAGNOSIS

**COLOUR BLINDNESS, A HAZARD TO DIABETICS [LETTER]** Thompson DG, Howarth F, Levy IS *Lancet* 1: 44, 7 Jan 78 (Eng) DL/78MAY366

## 1.E.4.4 GLYCOSURIA, DRUG THERAPY

## 1.E.4.5 GLYCOSURIA, ENZYMOLOGY

## 1.E.4.6 GLYCOSURIA, ETIOLOGY

## 1.E.4.7 GLYCOSURIA, METABOLISM

**AN INTERPRETATION OF THE INTRAVENOUS GLUCOSE TOLERANCE TEST IN THE LIGHT OF RECENT FINDINGS ON THE KINETICS OF GLUCOSE AND INSULIN IN MAN.** Cunningham VJ, Heath DF *Clin Sci Mol Med* 54: 161-73, Feb 78 (Eng) [48 ref.] DL/78MAY256

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## 1.E.6.2 HYPOGLYCEMIA, CHEMICALLY INDUCED

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**[DRUG INFORMATION: INSULIN. THERAPEUTIC MAIN GROUP: ANTIDIABETICS. 3.]** Lumloltz IB *Sygeplejersken* 77: 11, 23 Nov 77 (Dan) DL/78MAY465

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## 1.E.6.6 HYPOGLYCEMIA, ETIOLOGY



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## 1.E.6.8 HYPOGLYCEMIA, PHYSIOPATHOLOGY

## 1.E.6.9 HYPOGLYCEMIA, THERAPY

# 1.F DIABETES

## 1.F.1 ALLOXAN DIABETES (SEE SEC. 1.F.10.2)

## 1.F.2 DIABETES MELLITUS

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### 1.F.6.1 DIABETIC KETOACIDOSIS

#### 1.F.6.1.1 ACIDOSIS, DIABETIC

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## 1.F.6.5 DIABETIC RETINOPATHY



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## 1.F.7 DIABETES OCCURRENCE, ETIOLOGY AND RELATED TERMS

### 1.F.7.1 DIABETES, OCCURRENCE

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- ### 2.G.5 PITUITARY-ADRENAL SYSTEM
- ### 2.G.6 SECRETORY RATE
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#### DETECTION

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BIOLOGICAL STUDIES OF THE RATE OF ALIMENTARY ABSORPTION AND URINARY EXCRETION OF TOLBUTAMIDE AND CERTAIN NEWLY SYNTHESIZED CHEMICALLY RELATED CONGENERS IN RABBITS. Abdel Wahab MF, El-Allawy RM, Madkour MK *J Egypt Med Assoc* 59: 177-90, 1976 (Eng) DL/78MAY332

ADMINISTRATION, ORAL; ANIMAL; CHROMATOGRAPHY; COLORIMETRY; FEMALE; INTESTINAL ABSORPTION; MALE; RABBITS; SULFONYLUREA COMPOUNDS (metabolism, urine); TOLBUTAMIDE (metabolism, urine).

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AMNIOTIC FLUID TOTAL PROTEINS, ELECTROPHORETIC PATTERNS, TOTAL AMINO ACIDS AND CREATININE IN DIABETIC WOMEN. Emara SH, El Hawary MF, Abdel-Karim HA *Z Geburtshilfe Perinatol* 181: 432-7, Dec 77 (Eng) DL/78MAY498

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NEUTRAL AND ACID LIPASE OF MOUSE 3T3 FIBROBLASTS WITH INCREASED ADIPOSE CONVERSION. Adebonjo FO, Cortner JA, Coates PM *Cell Differ* 6: 307-12, Dec 77 (Eng) DL/78MAY243  
ACETYLGLUCOSAMINIDASE (metabolism); BETA-GALACTOSIDASES (metabolism); CELL DIVISION; CELL LINE; EPINEPHRINE (pharmacodynamics); INSULIN

(pharmacodynamics); LIPASE (metabolism); LIPIDS (metabolism); U.S. GOVT SUPPORTED, N.I.H.).

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ACETYLCHOLINESTERASE (metabolism); ANIMAL; DIABETES MELLITUS, EXPERIMENTAL (enzymology); ENGLISH ABSTRACT; HISTOCYTOCHEMISTRY; ISLANDS OF LANGERHANS (physiology); MALE; MEDULLA OBLONGATA (enzymology); RATS; VAGUS NERVE (enzymology, physiology).

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[RAT BRAIN AND LIVER GLUTAMINE SYNTHETASE AND GAMMA-GLUTAMYLTRANSFERASE ACTIVITY IN ALLOXAN DIABETES (IV)] Egian VB, Turshian GA, Akopian GE, Safranzian SS, Buniatian GK *Vopr Biokhim Mozga* 11: 29-34, 1976 (Rus) DL/78MAY482

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AMYLASE (secretion); ANIMAL; CATS; CONSCIOUSNESS; GALLBLADDER (drug effects); GASTRIC JUICE (secretion); GASTRIC MUCOSA (blood supply, drug effects, secretion); IN VITRO; PANCREAS (drug effects); PANCREATIC JUICE (secretion); PEPsin (secretion); REGIONAL BLOOD FLOW (drug effects); SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics); UNCONSCIOUSNESS.

## Albisser AM

AN IMPROVED TECHNIQUE FOR THE RAPID CONTINUOUS MEASUREMENT OF WHOLE BLOOD GLUCOSE, SUITABLE FOR CLINICAL APPLICATION IN AN ARTIFICIAL ENDOCRINE PANCREAS. Albisser AM, Leibel BS, Johnson W, Denoga A, Botz CK, Marliiss EB *Med Prog Technol* 5: 141-8, 15 Dec 77 (Eng) DL/78MAY390

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[SOMATOSTATIN: ITS PHYSIOLOGICAL IMPORTANCE AND USE IN THE INTERNAL DISEASE CLINIC (A REVIEW OF THE LITERATURE)] Alekseev IuP *Probl Endokrinol (Mosk)* 23: 93-106, Nov-Dec 77 (Rus) [100 ref.] DL/78MAY419

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**ACIDOSIS, DIABETIC** (diagnosis); **ADOLESCENCE; AGE FACTORS; BLOOD SUGAR** (analysis); **CHILD; CHILD, PRESCHOOL; DIABETES MELLITUS, JUVENILE** (diagnosis); **ENGLISH ABSTRACT; FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; INSULIN** (blood); **MALE; PREDIABETIC STATE** (diagnosis).

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**[THE BIOCHEMICAL BASIS OF DIABETIC MICROANGIOPATHIES]** Allalouf D *Harefuah* 93: 254-6, 1 Nov 77 (Heb) DL/78MAY311  
**DIABETIC ANGIOPATHIES** (metabolism); **HUMAN.**

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**COLLAGENASE: AN ADJUNCT TO HEALING TROPIC ULCERATIONS IN THE DIABETIC PATIENT.** Altman MI, Goldstein L, Horowitz S *J Am Podiatry Assoc* 68: 11-5, Jan 78 (Eng) DL/78MAY333

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**CHICK EMBRYO; GLYCOGEN PHOSPHORYLASE** (metabolism); **GLYCOGEN SYNTHETASE** (metabolism); **GLYCOGEN** (metabolism); **MICROSCOPY, ELECTRON; PHOTORECEPTORS** (enzymology); **RETINA** (embryology, enzymology, ultrastructure).

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**[STIMULATION TEST FOR CARBOHYDRATE METABOLISM IN CHILDHOOD. NORMAL VALUES OF ORAL GLUCOSE TOLERANCE TEST USING 1.75G/KG FROM VENOUS AND CAPILLARY BLOOD]** Amendt P, Michaelis D, Ziegler M *Kinderarztl Prax* 45: 433-44, Oct 77 (Ger) DL/78MAY358

**ADOLESCENCE; BLOOD SUGAR** (analysis); **CAPILLARIES; CARBOHYDRATES** (metabolism); **CHILD; DIABETES MELLITUS, JUVENILE** (blood); **ENGLISH ABSTRACT; FATTY ACIDS, NONESTERIFIED** (blood); **GLUCOSE TOLERANCE TEST; GLYCERIN** (blood); **HUMAN; INSULIN** (blood); **NORMAL VALUES; STIMULATION, CHEMICAL; VEINS.**

### Amiragova MG

**[PARTICIPATION OF THE AMYGDALOID COMPLEX IN THE REGULATION OF INSULIN AND CORTICOID SECRETION IN EMOTIONAL STRESS]** Amiragova MG, Stulnikov BV, Podolskii LG *Fiziol Zh SSSR* 63: 1644-52, Dec 77 (Rus) DL/78MAY278

**ADRENAL CORTEX HORMONES** (blood, secretion); **AMYGDALOID BODY** (physiology); **ANIMAL; BLOOD SUGAR** (analysis); **CATS; DOGS; ELECTRIC STIMULATION; ELECTROENCEPHALOGRAPHY**; **ENGLISH ABSTRACT; HYPOTHALAMUS** (physiology); **INSULIN** (blood, secretion); **STRESS, PSYCHOLOGICAL** (physiology); **TIME FACTORS.**

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**RISK FACTORS AND ANGIOGRAPHICALLY DETERMINED CORONARY OCCLUSION.** Anderson AJ, Barboriak JJ, Rimm AA *Am J Epidemiol* 107: 8-14, Jan 78 (Eng) DL/78MAY533

**AGE FACTORS; ALCOHOL DRINKING; CORONARY DISEASE** (complications, occurrence, radiography); **CORONARY VESSELS** (radiography); **DIABETES MELLITUS** (complications); **FEMALE; HUMAN; HYPERTENSION** (complications); **MALE; MIDDLE AGE; OBESITY** (complications); **RISK; SEX FACTORS; SMOKING; U.S. GOVT SUPPORTED, N.I.H.**; **U.S. GOVT SUPPORTED, NON-N.I.H.**; **WISCONSIN.**

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**[THERAPEUTIC QUALITIES OF A LENTE PREPARATION OF SWINE INSULINS MANUFACTURED BY PHARMACHEM]** Andreev D, Bozadzheva E, Pampulov L, Penchev I, Uzunova B *Vutr Boles* 16: 59-66, 1977 (Bul) DL/78MAY489

**ADULT; AGED; ANIMAL; BLOOD SUGAR** (analysis); **BULGARIA; CATTLE; CLINICAL RESEARCH; COMPARATIVE STUDY; DIABETES MELLITUS** (drug therapy); **DRUG EVALUATION; ENGLISH ABSTRACT; FEMALE; HUMAN; INSULIN, LENTE** (administration & dosage, therapeutic use); **MALE; MIDDLE AGE; SWINE.**

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**REACTION OF PYRIDOXAL 5-PHOSPHATE WITH ESCHERICHIA COLI COA TRANSFERASE: EVIDENCE FOR AN ESSENTIAL LYSINE RESIDUE.** Frerman FE, Andreone P, Mielke D *Arch Biochem Biophys* 181: 508-15, Jun 77 (Eng) \*DL/78MAY170

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**PATHOPHYSIOLOGY OF ACUTE RENAL FAILURE.** Andreucci VE *Proc Eur Dial Transplant Assoc* 14: 115-26, 1977 (Eng) [112 ref.] DL/78MAY420

**ANGIOTENSINS** (physiology); **FEEDBACK; GLOMERULAR FILTRATION RATE; HUMAN; INSULIN** (diagnostic use); **KIDNEY CONCENTRATING ABILITY; KIDNEY FAILURE, ACUTE** (etiology, physiopathology); **KIDNEY TUBULES** (physiopathology); **KIDNEY** (blood supply, physiopathology); **PROSTAGLANDINS** (physiology); **REGIONAL BLOOD FLOW; RENIN** (physiology); **REVIEW.**

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**SPLANCHNIC BLOOD FLOW, O<sub>2</sub> CONSUMPTION, REMOVAL OF LACTATE, AND OUTPUT OF GLUCOSE IN HIGHLANDERS.** Capderou A, Polianski J, Mensch-Dechene J, Drouet L, Antezana G, Zelter M, Lockhart A *J Appl Physiol* 43: 204-10, Aug 77 (Eng) \*DL/78MAY58

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**ADULT; DIAZOXIDE** (adverse effects, therapeutic use); **ENGLISH ABSTRACT; HUMAN; HYPERGLYCEMIA** (chemically induced); **HYPERNATREMIA** (chemically induced); **HYPERTENSION, MALIGNANT** (drug therapy); **MALE; MIDDLE AGE.**

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**EFFECTS OF SOME GASTROINTESTINAL HORMONES ON TWO MUSCLE LAYERS OF DUODENUM.** Anuras S, Cooke AR *Am J Physiol* 234: e60-3, Jan 78 (Eng) DL/78MAY538

**ANIMAL; CATS; CHOLECYSTOKININ** (pharmacodynamics); **DOSE-RESPONSE RELATIONSHIP, DRUG**; **DUODENUM** (physiology); **FEMALE; GASTROINTESTINAL HORMONES** (pharmacodynamics); **GLUCAGON** (pharmacodynamics); **MALE; MUSCLE CONTRACTION** (drug effects); **MUSCLE TONUS** (drug effects); **MUSCLE, SMOOTH** (physiology); **OPOSSUMS; PENTAGASTRIN** (pharmacodynamics); **SECRETIN** (pharmacodynamics); **U.S. GOVT SUPPORTED, N.I.H.**; **U.S. GOVT SUPPORTED, NON-N.I.H.**; **VASOACTIVE INTESTINAL PEPTIDE** (pharmacodynamics).

### Aoki K

**[BEDSIDE NURSING. NURSING OF AN AGED PATIENT WITH RECURRENT HYPOGLYCEMIC EPISODES]** Aoki K *Kangogaku Zasshi* 41: 1255-8, Dec 77 (Jpn) DL/78MAY355

**AGED; CASE REPORT; HUMAN; HYPOGLYCEMIA** (nursing).

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**[EXPERIMENTAL COMPARATIVE CUTANEOUS WOUND HEALING IN SIALOADENECTOMIZED, DIABETIC AND DEX-METHASONE 21-PHOSPHATE TREATED RATS. I. MORPHOLOGIC STUDY]** Martinelli C, Matheus G, Melhado RM, Arcieri RM *Rev Fac Odontol Aracatuba* 3: 233-43, 1974 (Por) DL/78MAY438

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**POLYAMINE EFFECTS ON SUCCINATE-LINKED AND ALPHAKETOGLUTARATE-LINKED RAT LIVER MITOCHONDRIAL RESPIRATION.** Chaffee RR, Salganicoff L, Arine RM, Rochelle RH, Schultz EL *Biochem Biophys Res Commun* 77: 1009-16, 8 Aug 77 (Eng) \*DL/78MAY189



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FINE STRUCTURAL CHANGES IN DOG MYOCARDIUM EXPOSED TO LOWERED PH IN VIVO. Armiger LC, Seelye RN, Phil D, Elswijk JG, Carnell VM, Gavin JB, Herdson PB *Lab Invest* 37: 237-42, Sep 77 (Eng) \*DL/78MAY75

ANIMAL; CHROMATIN (ultrastructure); CYTOPLASMIC GRANULES (ultrastructure); DOGS; FEMALE; GLYCOGEN; HYDROGEN-ION CONCENTRATION (physiology); LACTATES (metabolism); MALE; MITOCHONDRIA, MUSCLE (ultrastructure); MYOCARDIUM (metabolism, ultrastructure); MYOFIBRILS (ultrastructure).

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TOTAL PANCREATICTOMY FOR CANCER. AN APPRAISAL OF 65 CASES. Ihse I, Lilja P, Arnesjo B, Bengmark S *Ann Surg* 186: 675-80, Dec 77 (Eng) DL/78MAY554

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ACUTE DISEASE; ADOLESCENCE; ANTIGENS (analysis); CARBOHYDRATES (metabolism); CHILD; CHILD, PRESCHOOL; CHRONIC DISEASE; DIABETES MELLITUS, JUVENILE (metabolism); ENGLISH ABSTRACT; FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (blood); LIVER DISEASES (metabolism); MALE; PREDIABETIC STATE (metabolism).

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ANIMAL; CALCIUM (pharmacodynamics); DEXTRAN; GLUCOSE (metabolism, pharmacodynamics); IN VITRO; INSULIN (secretion); ISLANDS OF LANGERHANS (drug effects, metabolism); MALE; MANNOHEPTULOSE (pharmacodynamics); PHLORETIN (analogs & derivatives, pharmacodynamics); RATS; RECEPTORS, DRUG (drug effects).

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THE PROBLEM OF SELECTIVE PERICYTE INJURY. Ashton N, Tripathi R *Bibl Anat* 19-23, 1977 (Eng) DL/78MAY571

ANIMAL; CAPILLARIES (pathology, ultrastructure); DIABETIC RETINOPATHY (pathology); DOGS; HUMAN; RETINAL VESSELS (pathology, ultrastructure).

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CAN GENETICALLY TRANSMITTED OBESITY BE ASCRIBED TO AN ADIPOSE TISSUE DEFECT? Meade CJ, Ashwell M, Medawar PB, Sower C *Proc Nutr Soc* 36: 114a, Dec 77 (Eng) DL/78MAY427

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[IMMUNOLOGICAL STUDIES IN DIABETIC NEPHROPATHY] Astrug A, Kosturkov G, Belovezhov N, Zlateva S *Vutr Boles* 16: 48-52, 1977 (Bul) DL/78MAY487

COMPLEMENT 3 (analysis); DIABETIC NEPHROPATHIES (immunology); FEMALE; HUMAN; IMMUNITY; IMMUNITY, CELLULAR; KIDNEY (immunology); LYMPHOCYTE TRANSFORMATION; MALE; MIDDLE AGE; SKIN TESTS.

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HISTOLOGICAL AND HISTOCHEMICAL STUDY OF THE GINGIVA IN DIABETIC PATIENTS. Fahim MS, Atia MA *Egypt Dent J* 21: 61-6, Oct 75 (Eng) DL/78MAY266

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NOCTURNAL PENILE TUMESCENCE AND DIAGNOSIS IN DIABETIC IMPOTENCE. Karacan I, Salis PJ, Ware JC, Derwent B, Williams RL, Scott FB, Attia SL, Beutler LE *Am J Psychiatry* 135: 191-7, Feb 78 (Eng) DL/78MAY549

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RESPONSE TO GLUCOSE LOADING OF THE LEAN SQUIRREL MONKEY IN UNRESTRAINED CONDITIONS. Ausman LM, Gallina DL *Am J Physiol* 234: r20-4, Jan 78 (Eng) DL/78MAY541

ADMINISTRATION, ORAL; ANIMAL; BLOOD SUGAR; BODY COMPOSITION; FATTY ACIDS, NONESTERIFIED (blood); FEMALE; GLUCOSE TOLERANCE TEST; GLUCOSE (administration & dosage, metabolism); INFUSIONS, PARENTERAL; INSULIN (secretion); MALE; MONKEYS (physiology); SQUIRREL MONKEYS (blood, physiology); U.S. GOVT SUPPORTED, N.I.H. ).

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ANIMAL; BINDING SITES; CATS; ENGLISH ABSTRACT; GLUCOKINASE (isolation & purification, metabolism); ISOELECTRIC FOCUSING; KINETICS; MEMBRANES (enzymology); MICROSOMES, LIVER (enzymology); PROTEIN BINDING; PYROPHOSPHATES; RIBONUCLEOTIDES; SOLUBILITY; TRITONS.

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[LACTOSE IN THE DIABETIC DIET. METABOLIC STUDIES AFTER ORAL AD-

MINISTRATION OF LACTOSE IN METABOLICALLY HEALTHY PERSONS AND DIABETICS] Bachmann W, Haslbeck M, Wittmann P, Mehnert H *Ther Ggw* 116: 2265-89, Dec 77 (Ger) DL/78MAY469

ADMINISTRATION, ORAL; ADOLESCENCE; ADULT; DIABETES MELLITUS (diet therapy, metabolism); DIABETIC DIET; HUMAN; LACTOSE (administration & dosage, metabolism).

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IMMUNOHISTOCHEMICAL AND ULTRASTRUCTURAL IDENTIFICATION OF THE PANCREATIC POLYPEPTIDE-PRODUCING CELL (PP-CELL) IN THE HUMAN PANCREAS. Baetens D, De Mey J, Gepts W *Cell Tissue Res* 185: 239-46, 13 Dec 77 (Eng) DL/78MAY242

CYTOPLASMIC GRANULES (analysis, ultrastructure); HUMAN; IMMUNOENZYME TECHNIQS; ISLANDS OF LANGERHANS (analysis, cytology); PANCREAS (analysis, cytology); PANCREATIC HORMONES (analysis); PEPTIDES (analysis).

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ANIMAL; DIABETES MELLITUS (metabolism, pathology, veterinary); DISEASE MODELS, ANIMAL; FLUORESCENT ANTIBODY TECHNIC; GLUCAGON (metabolism); INSULIN (metabolism); ISLANDS OF LANGERHANS (metabolism, pathology); MICE; INBRED C57BL; MICE, OBESE; OBESITY IN DIABETES (metabolism, pathology); PEPTIDES (metabolism); SOMATOTROPIN RELEASE INHIBITING HORMONE (metabolism); U.S. GOVT SUPPORTED, N.I.H. ).

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LIPOPROTEIN LIPASE ACTIVITY IN RAT HEART MYOCYTES. Bagby GJ, Liu MS, Spitzer JA *Life Sci* 21: 467-73, 1 Aug 77 (Eng) \*DL/78MAY82

ANIMAL; BLOOD; LACTATES (metabolism); LIPOPROTEIN LIPASE (metabolism); MALE; MYOCARDIUM (cytology, metabolism); PALMITATES (metabolism); PROTAMINES (pharmacodynamics); RATS; SODIUM CHLORIDE (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H. ).

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THE EFFECT OF ACUTE HYPERGLYCAEMIA ON HORMONALLY STIMULATED PANCREATIC EXOCRINE SECRETION IN MAN. Clain J, Barbezat GO, Bank S *S Afr Med J* 52: 358-61, 20 Aug 77 (Eng) \*DL/78MAY107

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[PRACTICAL MANAGEMENT OF THE TREATMENT OF DIABETIC GANGRENE IN BLACK AFRICA (APPROPOS OF 50 UNPUBLISHED PERSONAL CASES)] Sankale M, Diop B, Bao O *Bull Soc Med Afr Noire Lang Fr* 22: 248-57, 1977 (Fre) DL/78MAY246

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DIABETES MELLITUS, JUVENILE (familial & genetic); FEMALE; GENE FREQUENCY; GENETICS, POPULATION; HUMAN; HL-A ANTIGENS; MALE; NEW YORK CITY.

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[HYDROCARBON EXCHANGE IN PILOTS DURING THEIR MASTERING OF A NEW AVIATION TECHNIQUE] Lysenko AS, Bariatinskii BA, Dasov Nla *Voen Med Zh* 51-3, Mar 77 (Rus) \*DL/78MAY109

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ABNORMAL HEMORHEOLOGY IN DIABETES MELLITUS. Barnes A, Locke P, Dormandy J,

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BLOOD VISCOSITY; DIABETES MELLITUS (blood); DIABETIC ANGIOPATHIES (blood); DIABETIC NEPHROPATHIES (blood); DIABETIC NEUROPATHIES (blood); DIABETIC RETINOPATHY (blood); ERYTHROCYTES (physiology); HUMAN.

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CHRONOLOGIC AND PHYSIOLOGIC AGE AFFECT REPLICATIVE LIFE-SPAN OF FIBROBLASTS FROM DIABETIC, PRE-DIABETIC, AND NORMAL DONORS. Goldstein S, Moerman EJ, Soeldner JS, Gleason RE, Barnett DM *Science* 199: 781-2, 17 Feb 78 (Eng) DL/78MAY446

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AN ACCURATE DETERMINATION OF HUMAN GROWTH HORMONE CONTENT IN DIFFERENT PITUITARY EXTRACTS, USING A RADIOIMMUNOASSAY WITH POLYACRYLAMIDE GEL ELECTROPHORESIS AS A BOUND-FREE SEPARATION SYSTEM. Bartolini P, Marques de Assis L, Schwarz I, Pieroni RR *Clin Chim Acta* 79: 223-36, 15 Aug 77 (Eng) \*DL/78MAY16

ANIMAL; ANTIBODIES; BIOLOGICAL ASSAY; ELECTROPHORESIS, POLYACRYLAMIDE GEL; GROWTH (drug effects); HUMAN; IODINE RADIOISOTOPES (diagnostic use); METHODS; MOLECULAR WEIGHT; PITUITARY GLAND (analysis); RADIOIMMUNOASSAY; RATS; SOMATOTROPIN (immunology, isolation & purification, pharmacodynamics).

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[AUTOTRANSPLANTATION OF A PANCREAS SEGMENT IN THE DOG] Bartos V, Kolc J, Nozickova M, Matejkova M, Malek P *Rozhl Chir* 56: 340-3, May 77 (Cze) \*DL/78MAY106

ANIMAL; DOGS; ENGLISH ABSTRACT; PANCREAS (secretion, transplantation); TRANSPLANTATION, AUTOLOGOUS.

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THE EFFECTS OF FEEDING AND ACUTE COLD EXPOSURE ON THE VISCERAL RELEASE OF VOLATILE FATTY ACIDS, ESTIMATED HEPATIC UPTAKE OF PROPIONATE AND RELEASE OF GLUCOSE, AND PLASMA INSULIN CONCENTRATION IN SHEEP. Thompson GE, Bassett JM, Bell AW *Br J Nutr* 39: 219-26, Jan 78 (Eng) DL/78MAY214

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GLUCOSE TOLERANCE IN BLOOD AND SKIN OF PATIENTS WITH SEBORRHOEIC DERMATITIS. Hafiez AA, Kader MM, El-Mofty AM, Ismail AA, Bassili F *Indian J Dermatol* 22: 81-6, Oct 76 (Eng) \*DL/78MAY57

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THYMUS-DEPENDENT REVERSIBILITY OF PHYSIOLOGICAL AND ISOPROTERENOL EVOKED AGE-RELATED PARAMETERS IN ATHYMIC (NUDE) AND OLD NORMAL MICE. Piantanelli L, Basso A, Muzzioli M, Fabris N *Mech Ageing Dev* 7: 171-82, Mar 78 (Eng) DL/78MAY363

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THE METABOLIC EFFECTS OF INHALED SALBUTAMOL. Bateman SM, Pidgeon J, Spiro SG, Johnson AJ *Br J Clin Pharmacol* 5: 127-9, Feb 78 (Eng) DL/78MAY211

ADULT; AGED; ALBUTEROL (administration & dosage, pharmacodynamics); BLOOD SUGAR (metabolism); FATTY ACIDS, NONESTERIFIED (blood); FEMALE; HUMAN; HYDROCORTISONE (blood); INSULIN (blood); INTERMITTENT POSITIVE PRESSURE BREATHING (IPPB) (isolation & purification); MALE; METABOLISM (drug effects); MIDDLE AGE; TIME FACTORS; TRIGLYCERIDES (blood).

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ACUTE EFFECTS OF INSULIN ON GLYCEROL PHOSPHATE ACYL TRANSFERASE ACTIVITY, KETOGENESIS AND SERUM FREE FATTY ACID CONCENTRATION IN PERFUSED RAT LIVER. Bates EJ, Topping DL, Sooranna SP, Saggerson D, Mayes PA *FEBS Lett* 84: 225-8, 15 Dec 77 (Eng) DL/78MAY275

ACYLTRANSFERASES (metabolism); ANIMAL; COENZYME A SYNTHETASES (metabolism); ETHYLMALIMIDE (pharmacodynamics); FATTY ACIDS, NONESTERIFIED (metabolism); GLYCEROLPHOSPHATE ACYLTRANSFERASE (metabolism); INSULIN (pharmacodynamics); KETONE BODIES (blood); LIVER (drug effects, metabolism); MALE; PERFUSION; RATS.

A SELECTIVE DECREASE IN MITOCHONDRIAL GLYCEROL PHOSPHATE ACYLTRANSFERASE ACTIVITY IN LIVERS FROM STREPTOZOTOCIN-DIABETIC RATS. Bates EJ, Saggerson D *FEBS Lett* 84: 229-32, 15 Dec 77 (Eng) DL/78MAY276

ACYLTRANSFERASES (metabolism); ANIMAL; DIABETES MELLITUS, EXPERIMENTAL (enzymology); GLYCEROLPHOSPHATE ACYLTRANSFERASE (metabolism); KINETICS; MALE; MICROSOMES, LIVER (enzymology); MITOCHONDRIA, LIVER (enzymology); RATS.

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[EFFECTS OF SOMATOTROPIN AND 3, 5, 3-TRIODO-L-THYRONINE ON THE FUNCTIONS OF LIVER MITOCHONDRIA (AUTHORS TRANSL)] Clot JP, Baudry M, Michel R *Ann Endocrinol (Paris)* 38: 303-10, Jul-Aug 77 (Fre) \*DL/78MAY162

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[SERUM ALPHA FETOPROTEIN DURING PREGNANCY IN METABOLICALLY HEALTHY AND DIABETIC WOMEN (PROCEEDINGS)] Weitzel H, Bellmann O, Bauer MP, Lang N *Arch Gynaekol* 224: 481-2, 29 Jul 77 (Ger) DL/78MAY564

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[MECHANISM OF THE ANTIDIABETIC EFFECT OF CYSTEINE] Lazaris IaA, Bavelskii ZE *Patol Fiziol Eksp Ter* 75-8, Sep-Oct 77 (Rus) DL/78MAY411

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[BIOLOGY AND URBANIZATION. STUDY OF 2 SERER POPULATIONS. III. BLOOD SUGAR AND GLYCOSURIA] Baylet R, Diebolt G, Linhard J, Josselin J, Michai M *Bull Soc Pathol Exot* 70: 205-7, Mar-Apr 77 (Fre) DL/78MAY247

ADOLESCENCE; ADULT; AGE FACTORS; AGED; DIABETES MELLITUS (occurrence); FEMALE; GLYCOSURIA (occurrence); HUMAN; MALE; MIDDLE AGE; RURAL POPULATION; SENEGAL; SEX FACTORS; URBAN POPULATION; URBANIZATION.

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HYPERCHLOREMIC METABOLIC ACIDOSIS IN DIABETES MELLITUS: A CASE REPORT AND DISCUSSION OF PATHOPHYSIOLOGIC MECHANISMS. Hammeke M, Bear R, Lee R, Goldstein M, Halperin M *Diabetes* 27: 16-20, Jan 78 (Eng) DL/78MAY296

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ACID- AND ALKALINE PHOSPHATASE IN AMNIOTIC FLUID IN NORMAL AND COMPLICATED PREGNANCY. Beckman G, Beckman L, Lofstrand T *Acta Obstet Gynecol Scand* 57: 1-5, 1978 (Eng) DL/78MAY513

ACID PHOSPHATASE (analysis); ALKALINE PHOSPHATASE (analysis); AMNIOTIC FLUID (enzymology); BLOOD GROUP INCOMPATIBILITY (enzymology); FEMALE; HUMAN; PREGNANCY IN DIABETES (enzymology); PREGNANCY COMPLICATIONS (enzymology); PREGNANCY COMPLICATIONS, HEMATOLOGIC (enzymology); PREGNANCY TOXEMIAS (enzymology); PREGNANCY.

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ADENOSINE CYCLIC-3,5-MONOPHOSPHATE (metabolism); ADENYL CYCLASE (metabolism); ADIPOSE TISSUE (drug effects, metabolism); ANIMAL; BLOOD SUGAR (metabolism); COMPARATIVE STUDY; EPINEPHRINE (pharmacodynamics); FATTY ACIDS, NONESTERIFIED (metabolism); INSULIN (blood); LIPID MOBILIZATION (drug effects); MICE; MICE, OBESE; SPECIES SPECIFICITY; THYROXINE (pharmacodynamics); 3,5-CYCLIC AMP PHOSPHODIESTERASE (metabolism).

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ADULT; AGED; CELL COUNT; DIABETIC NEUROPATHIES (pathology, physiopathology); ELECTROMYOGRAPHY; FEMALE; HUMAN; MALE; MICROSCOPY, ELECTRON; MIDDLE AGE; MOTOR NEURONS; NERVE FIBERS, MYELINATED; NEURAL CONDUCTION; NEURONS, AFFERENT; PERIPHERAL NERVES (pathology).

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[ERYTHROCYTE AGGREGATION IN DIABETIC RETINOPATHY] Beliaeva MI, Shestakov VA *Vestn Oftalmol* 57-60, 1977 (Rus) DL/78MAY478

DIABETIC RETINOPATHY (blood); ERYTHROCYTE AGGREGATION; FEMALE; HUMAN; MALE.

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THE EFFECTS OF FEEDING AND ACUTE COLD EXPOSURE ON THE VISCERAL RELEASE OF VOLATILE FATTY ACIDS, ESTIMATED HEPATIC UPTAKE OF PROPIONATE AND RELEASE OF GLUCOSE, AND PLASMA INSULIN CONCENTRATION IN SHEEP. Thompson GE, Bassett JM, Bell AW *Br J Nutr* 39: 219-26, Jan 78 (Eng) DL/78MAY214

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ANIMAL; COENZYME A (metabolism); DIETHYLHEXYL PHTHALATE (pharmacodynamics); MALE; MITOCHONDRIA (drug effects, metabolism); MITOCHONDRIA, LIVER (drug effects, metabolism); MITOCHONDRIA, MUSCLE (drug effects, metabolism); MYOCARDIUM; PALMITIC ACIDS (metabolism); PHTHALIC ACIDS (pharmacodynamics); PROTEINS (metabolism); RATS.

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[SERUM ALPHA FETOPROTEIN DURING PREGNANCY IN METABOLICALLY HEALTHY AND DIABETIC WOMEN (PROCEEDINGS)] Weitzel H, Bellmann O, Bauer MP, Lang N *Arch Gynaecol* 224: 481-2, 29 Jul 77 (Ger) DL/78MAY564

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INFLUENCE OF MEAL FREQUENCY ON BODY WEIGHT, PLASMA METABOLITES, AND GLUCOSE AND CHOLESTEROL METABOLISM IN THE DOG. Romsos DR, Belo PS, Bergen WG, Leveille GA *J Nutr* 108: 2,8-47, Feb 78 (Eng) DL/78MAY338

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[IMMUNOLOGICAL STUDIES IN DIABETIC NEPHROPATHY] Astrug A, Kosturkov G, Belovezhov N, Zlateva S *Vutr Boles* 16: 48-52, 1977 (Bul) DL/78MAY487

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TOTAL PANCREATECTOMY FOR CANCER. AN APPRAISAL OF 65 CASES. Ihse I, Lilja P, Arnesjo B, Bengmark S *Ann Surg* 186: 675-80, Dec 77 (Eng) DL/78MAY554

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IN VITRO STUDIES ON NORMAL, STIMULATED AND IMMUNOLOGICALLY ACTIVATED MOUSE MACROPHAGES. I. OXIDATION OF 1-14C GLUCOSE BY MACROPHAGES IN MONOLAYER CULTURES. Riisgaard S, Bennedsen J, Rhodes JM *Acta Pathol Microbiol Scand [C]* 85C: 233-8, Aug 77 (Eng) \*DL/78MAY134

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EFFECT OF SOMATOSTATIN ON PLATELET AGGREGATION AND PLASMA FACTOR VIII LEVEL IN NORMAL MAN. Bensoussan D, Levy-Toledano S, Passa P, Caen J, Canivet J *Diabete Metab* 3: 223-7, Dec 77 (Eng) DL/78MAY283

ADENOSINE DIPHOSPHATE (pharmacodynamics); ADULT; ANTIGENS;

BLOOD CELL COUNT; DIABETES MELLITUS (blood); FACTOR VIII (immunology, physiology); FEMALE; HUMAN; MALE; MIDDLE AGE; PLATELET AGGREGATION (drug effects); RISTOCETIN (pharmacodynamics); SOMATOTROPIN RELEASE INHIBITING HORMONE (diagnostic use, pharmacodynamics); VON WILLEBRAND FACTOR (physiology).

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ACTIVATION OF PURIFIED 3-HYDROXY-3-METHYLGLUTARYL-COA REDUCTASE BY PHOSPHOLIPIDS. Berde CB, Heller RA, Simoni RD *Biochim Biophys Acta* 488: 112-20, 20 Jul 77 (Eng) \*DL/78MAY4

ALCOHOL OXIDOREDUCTASES (metabolism); ANIMAL; ENZYME ACTIVATION; HYDROXYMETHYLGLUTARYL COA REDUCTASES (isolation & purification, metabolism); KINETICS; MICROSOMES, LIVER (enzymology, physiology); MOLECULAR WEIGHT; PHOSPHOLIPIDS (pharmacodynamics, physiology); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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[ACTION OF CALCIUM DOBESILATE ON CAPILLARY FRAGILITY IN DIABETICS] Beretta P, Sartori F *Arch Sci Med (Torino)* 134: 329-36, Jul-Sep 77 (Ita) DL/78MAY565

ADOLESCENCE; ADULT; AGED; BENZENESULFONATES (therapeutic use); CALCIUM DOBESILATE (therapeutic use); CAPILLARY FRAGILITY (drug effects); DIABETIC ANGIOPATHIES (drug therapy); DRUG EVALUATION; ENGLISH ABSTRACT; FEMALE; HUMAN; MALE; MIDDLE AGE.

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ADULT; BLOOD SUGAR (metabolism); DIURETICS, OSMOTIC; ENGLISH ABSTRACT; GLYCOSURIA (chemically induced); HUMAN; MALE; MALTOSE (pharmacodynamics); TIME FACTORS.

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[PRECLINICAL DIABETES MELLITUS IN CHILDREN] Alexandru E, Popa I, Deutsch G, Bergel E, Giza S, Bugeag M *Rev Pediatr Obstet Gynecol [Pediatr]* 26: 221-30, Jul-Sep 77 (Rum) DL/78MAY440

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INFLUENCE OF MEAL FREQUENCY ON BODY WEIGHT, PLASMA METABOLITES, AND GLUCOSE AND CHOLESTEROL METABOLISM IN THE DOG. Romsos DR, Belo PS, Bergen WG, Leveille GA *J Nutr* 108: 2,8-47, Feb 78 (Eng) DL/78MAY338

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ALANINE AMINOTRANSFERASE (metabolism); ANIMAL; GLUCAGON (blood); GLUCONEOGENESIS; HEXOSE DIPHOSPHATASE (metabolism); HYPOTHALAMUS (physiology); LIVER (enzymology); PHOSPHOENOLPYRUVATE CARBOXYKINASES (metabolism); PROTEINS (metabolism); PYRUVATE CARBOXYLASE (metabolism); RATS; SERINE DEHYDRATASE (metabolism); TRYPTOPHAN OXYGENASE (metabolism); TYROSINE AMINOTRANSFERASE (metabolism); U.S. GOVT SUPPORTED, N.I.H. ).

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[THE PREVALENCE AND INCIDENCE OF JUVENILE ONSET INSULIN-DEPENDENT DIABETES MELLITUS IN FRANCE (AUTHORS TRANSL.)] Lestrade H, Besse J *Diabete Metab* 3: 229-34, Dec 77 (Fre) DL/78MAY284

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NOCTURNAL PENILE TUMESCENCE AND DIAGNOSIS IN DIABETIC IMPOTENCE. Karacan I, Salis PJ, Ware JC, Derwent B, Williams RL, Scott FB, Attia SL, Beutler LE *Am J Psychiatry* 135: 191-7, Feb 78 (Eng) DL/78MAY549

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SOME ORGAN-SPECIFIC AUTOANTIBODIES IN INDIAN DIABETICS. Majumdar G, Malaviya AN, Bhuyan UN, Ahuja MM *Indian J Med Res* 66: 473-8, Sep 77 (Eng) DL/78MAY316

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MECHANISM OF ACTION OF SOMATOSTATIN: GROWTH-HORMONE RELEASE [45CA]CALCIUM ION EFFLUX AND CYCLIC NUCLEOTIDE METABOLISM OF BOVINE ANTERIOR-PITUITARY SLICES IN THE PRESENCE OF PROSTAGLANDIN E2 AND 1-METHYL-3-ISOBUTYLXANTHINE. Bicknell RJ, Young PW, Schofield JG, Albano J *Biochem Soc Trans* 5: 219-22, 1977 (Eng) \*DL/78MAY47

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ANIMAL; CALCIUM (metabolism); CATTLE; GUANOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); IN VITRO; KINETICS; PITUITARY GLAND (metabolism); PITUITARY GLAND, ANTERIOR (drug effects, metabolism); PROSTAGLANDINS E (pharmacodynamics); SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics); SOMATOTROPIN (secretion); XANTHINES (pharmacodynamics).

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HUMAN; MACROMOLECULAR SYSTEMS; MOLECULAR WEIGHT; RADIOIMMUNOASSAY; SOMATOTROPIN (blood, isolation & purification).

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COMPARISON AND EFFECTS OF NATURAL AND SYNTHETIC GLUCOSE TOLERANCE FACTOR IN NORMAL AND GENETICALLY DIABETIC MICE. Tuman RW, Bilbo JT, Doisy RJ *Diabetes* 27: 49-56, Jan 78 (Eng) DL/78MAY300

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METFORMIN MONITORING [LETTER] Biron P *Can Med Assoc J* 118: 15, 18, 7 Jan 78 (Eng) DL/78MAY239

ACIDOSIS (chemically induced); DIABETES MELLITUS (drug therapy); HUMAN; LACTATES (blood); METFORMIN (adverse effects).

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DIABETES MELLITUS (drug therapy); HUMAN; METFORMIN (adverse effects, therapeutic use).

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EFFECT OF DEEP SURGICAL SEPSIS ON PROTEIN-SPARING THERAPIES AND NITROGEN BALANCE. Miller JD, Blackburn GL, Bistrian BR, Rienhoff HY, Trerice M *Am J Clin Nutr* 30: 1528-32, Sep 77 (Eng) \*DL/78MAY148

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SERUM TOLBUTAMIDE AND CHLORPROPAMIDE CONCENTRATIONS IN PATIENTS WITH DIABETES MELLITUS. Melander A, Sartor G, Wahlén E, Schersten B, Bitzen PO *Br Med J* 1: 142-4, 21 Jan 78 (Eng) DL/78MAY226

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A UNIFYING CONCEPT FOR DEGENERATIVE DISEASES. Bjorksten J *Compr Ther* 4: 44-52, Jan 78 (Eng) DL/78MAY257

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ANIMAL; BLOOD SUGAR (metabolism); DOGS; INSULIN (pharmacodynamics); MALE; THYROID GLAND (physiology); THYROID HORMONES (blood, secretion); THYROIDECTOMY; THYROXINE (blood); TRIIODOTHYRONINE (blood).

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ADOLESCENCE; ADULT; BLOOD SUGAR; CHILD; FEMALE; HUMAN; HYPERGLYCEMIA (complications); INFANT MORTALITY; INFANT, NEWBORN; INSULIN (therapeutic use); KETOSIS (complications); MALE; PATIENT CARE TEAM; PERINATOLOGY; PREGNANCY IN DIABETES (metabolism, therapy); PREGNANCY; RISK.

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ARTERIAL OCCLUSIVE DISEASES (diagnosis); ARTERIOSCLEROSIS (diagnosis); CEREBROVASCULAR DISORDERS (diagnosis); DIABETIC ANGIOPATHIES (complications); FEMALE; HUMAN; HYPERTENSION (complications); MALE; OBESITY (complications); PROGNOSIS; SEX FACTORS; SMOKING (complications); TIME FACTORS; ULTRASONICS (diagnostic use).

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AGED; APHAKIA, POSTCATARACT (rehabilitation); CATARACT (diagnosis); DIABETIC RETINOPATHY (therapy); GLAUCOMA (diagnosis, therapy); HUMAN; MACULAR DEGENERATION (rehabilitation); VISION DISORDERS; VISUAL ACUITY.

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[LONG-TERM STUDY ON 680 OBESE PERSONS AFTER SHORT-TERM OR CONTRAST AMBULATORY CARE USING A LOW CARBOHYDRATE AND PROTEIN-RICH DIET] Lagered H, Brandle J, Grabner E, Irsigler K *Verh Dtsch Ges Inn Med* 82 pt 2: 1430-3, 1976 (Ger) \*DL/78MAY127

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CELLS, CULTURED; NEOPLASMS, EXPERIMENTAL (metabolism); PITUITARY NEOPLASMS (metabolism); PROLACTIN (biosynthesis); RNA, MESSENGER (metabolism); SOMATOTROPIN (biosynthesis); TRANSLATION, GENETIC (drug effects); TRIIODOTHYRONINE (pharmacodynamics).

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ADENOSINE TRIPHOSPHATASE (metabolism); ADENYL CYCLASE (metabolism); ANIMAL; BIOLOGICAL TRANSPORT, ACTIVE (drug effects); BLADDER (metabolism, ultrastructure); CELL MEMBRANE (drug effects, enzymology, metabolism); ELECTRIC CONDUCTIVITY; ELECTROPHYSIOLOGY; IN VITRO; IONS; MEMBRANE POTENTIALS (drug effects); SODIUM (metabolism); STILBENES (pharmacodynamics); TURTLES (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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AUTONOMIC NERVOUS SYSTEM (physiopathology); DIABETIC NEUROPATHIES (complications, physiopathology); HUMAN; NERVOUS SYSTEM DISEASES (complications, diagnosis); PAROTID GLAND (surgery); SWEATING, GUSTATORY (complications, etiology).

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EFFECTS OF NALOXONE, MORPHINE AND METHIONINE ENKEPHALIN ON SERUM PROLACTIN, LUTEINIZING HORMONE, FOLLICLE STIMULATING HORMONE, THYROID STIMULATING HORMONE AND GROWTH HORMONE. Bruni JF, Van Vugt D, Marshall S, Meites J *Life Sci* 21: 461-6, 1 Aug 77 (Eng) \*DL/78MAY81

ANIMAL; DOSE-RESPONSE RELATIONSHIP, DRUG; ENKEPHALINS (pharmacodynamics); FSH (blood); GONADOTROPINS, PITUITARY (blood); LH (blood); MALE; MORPHINE (pharmacodynamics); NALOXONE (pharmacodynamics); OLIGOPEPTIDES (pharmacodynamics); PROLACTIN (blood); RATS; SOMATOTROPIN (blood); THYROTROPIN (blood); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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ACETYLATION; AGE FACTORS; BLOOD SUGAR (analysis); DIABETES MELLITUS (classification, metabolism); DIABETIC NEUROPATHIES (etiology); FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (blood, secretion); ISLANDS OF LANGERHANS (physiopathology); MALE; SULFAMETHAZINE (metabolism).

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AGING; AMYLOIDOSIS (pathology); ANALGESICS (adverse effects); ANEMIA, SICKLE CELL (complications); ANIMAL; ASPIRIN (adverse effects); CALCINOSIS (pathology); DEHYDRATION (complications); DIABETES MELLITUS (complications); FEMALE; HUMAN; KIDNEY CONCENTRATING ABILITY (drug effects); KIDNEY CORTEX (pathology); KIDNEY FAILURE, CHRONIC (chemically induced, etiology); KIDNEY MEDULLA (drug effects, pathology, physiopathology); KIDNEY PAPILLARY NECROSIS (chemically induced, complications, pathology); LIVER CIRRHOSIS, ALCOHOLIC (complications); MALE; MODELS,

BIOLOGICAL; NEPHRITIS, INTERSTITIAL (etiology); PHENACETIN (adverse effects); RATS; REVIEW.

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STUDIES ON THE EFFECT OF 5-THIO-D-GLUCOSE AND 2-DEOXY-D-GLUCOSE ON MYO-INOSITOL METABOLISM. Burton LE, Wells WW *Arch Biochem Biophys* 181: 384-92, Jun 77 (Eng) \*DL/78MAY167

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ACETATES (metabolism); ANIMAL; CARBACHOL (pharmacodynamics); CARBON RADIOISOTOPES; CHOLECYSTOKININ (pharmacodynamics); COMPARATIVE STUDY; FATTY ACIDS (biosynthesis); GLUCOSE (metabolism); GLYCERIDES (biosynthesis); PANCREAS (drug effects, metabolism); RATS; SECRETIN (pharmacodynamics); TRITIUM; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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ADAPTATION, PHYSIOLOGICAL; ADOLESCENCE; ADULT; ALTITUDE; ANEMIA (blood); ANOXIA; BLOOD SUGAR; DYE DILUTION TECHNIC; EXERTION; GLUCONEOGENESIS; HUMAN; LACTATES (blood); LIVER CIRCULATION; LIVER (metabolism); OXYGEN CONSUMPTION; REGIONAL BLOOD FLOW.

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ABNORMALITIES (diagnosis, mortality); DIAGNOSIS, DIFFERENTIAL; ENGLISH ABSTRACT; FEMALE; FETAL DEATH; FETAL DISEASES (diagnosis); HUMAN; INFANT, NEWBORN; INFANT, NEWBORN, DISEASES (diagnosis, mortality); MALE; MATERNAL-FETAL EXCHANGE; MEXICO; PREGNANCY IN DIABETES (complications, mortality); PREGNANCY.

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ADENOSINE DIPHOSPHATE (metabolism); ADENOSINE TRIPHOSPHATE (metabolism); ANIMAL; KETOGLUTARIC ACIDS (metabolism); MAGNESIUM (pharmacodynamics); MALE; MITOCHONDRIA, LIVER (drug effects, metabolism); OXIDATIVE PHOSPHORYLATION (drug effects); OXYGEN CONSUMPTION (drug effects); RATS; SPERMIDINE (pharmacodynamics); SPERMINE (pharmacodynamics); SUCCINATES (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H. ).

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BODY WEIGHT; COMPARATIVE STUDY; DIET, REDUCING; FEMALE; HEALTH EDUCATION; HUMAN; MALE; MEDICAL AUDIT; OBESITY IN DIABETES (prevention & control); SEX FACTORS.

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SEX- AND LINE-DEPENDENT DIFFERENCES OF RENAL ALPHA-GALACTOSIDASE AND BETA-GALACTOSIDASE ACTIVITIES IN TWO HIGHLY INBRED LINES OF CHINESE HAMSTERS WITH SPONTANEOUS DIABETES. Chang AY *Proc Soc Exp Biol Med* 157: 319-21, Feb 78 (Eng) DL/78MAY434

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STUDIES ON PHAGOCYTOSIS-III. TRICARBOXYLIC ACID CYCLE AND THE CYTOCHROME SYSTEM AS ENERGY SOURCES FOR PHAGOCYTOSIS IN RABBIT PERITONEAL EXUDATE POLYMORPHONUCLEAR LEUKOCYTES. Chang YH *Biochem Pharmacol* 26: 1489-93, 15 Aug 77 (Eng) \*DL/78MAY197

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ANIMAL; BIOLOGICAL TRANSPORT; GLUCOSE (metabolism); IN VITRO; INSULIN (pharmacodynamics); KINETICS; MATHEMATICS; METHYLGALACTOSIDES (metabolism); MODELS, BIOLOGICAL; MYOCARDIUM (metabolism); RATS; U.S. GOVT SUPPORTED, N.I.H. ).

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COMPARISON OF THE EFFECTS OF CARBAMOYLCHOLINE, PANCREOZYMIN AND SECRETIN ON LIPID METABOLISM IN THE RAT PANCREAS, INCUBATED IN THE PRESENCE OF [3H] H<sub>2</sub>O, [U-14C] GLUCOSE, OR [1-14C] ACETATE [PROCEEDINGS]. Calderon P, Fumelle J, Christophe J *Arch Int Physiol Biochim* 85: 389-90, Apr 77 (Eng) \*DL/78MAY181

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ALKALINE PHOSPHATASE (metabolism); ANIMAL; BONE AND BONES (enzymology); DIABETES MELLITUS, EXPERIMENTAL (enzymology); DIET; FASTING; INSULIN (pharmacodynamics); INTESTINE, SMALL (enzymology); ISOENZYMES (metabolism);



MALE; NUTRITION; RATS; U.S. GOVT SUPPORTED, N.I.H. ).

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BICARBONATES (secretion); BLOOD SUGAR (analysis); CHOLECYSTOKININ (pharmacodynamics); GLUCOSE (pharmacodynamics); HUMAN; PANCREATIC JUICE (secretion); PROTEINS (secretion); SECRETIN (pharmacodynamics); SECRETORY RATE (drug effects); STIMULATION, CHEMICAL.

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[EFFECTS OF SOMATOTROPIN AND 3, 5, 3-TRIIODO-L-THYRONINE ON THE FUNCTIONS OF LIVER MITOCHONDRIA (AUTHORS TRANSL.) Clot JP, Baudry M, Michel R *Ann Endocrinol (Paris)* 38: 303-10, Jul-Aug 77 (Fre) \*DL/78MAY162  
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DWARFISM, PITUITARY (enzymology); ENGLISH ABSTRACT; GLUTAMATE DEHYDROGENASE (metabolism); GUINEA PIGS; HYDROXYBUTYRATE DEHYDROGENASE (metabolism); HYDROXYLASES (metabolism); HYPOPHYSECTOMY; KYNURENINE (metabolism); MITOCHONDRIA, LIVER (drug effects, enzymology); MONOAMINE OXIDASE (metabolism); NAD (metabolism); RATS; SOMATOTROPIN (pharmacodynamics); SUCCINATE CYTOCHROME C OXIDOREDUCTASE (metabolism); SUCCINATE DEHYDROGENASE (metabolism); THYROIDECTOMY; TRIIODOTHYRONINE (pharmacodynamics).

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ACETYLGLUCOSAMINIDASE (analysis, metabolism); ANIMAL; AORTA, THORACIC (analysis, metabolism); AORTIC DISEASES (etiology); ARTERIOSCLEROSIS (etiology); CHOLESTEROL (analysis, metabolism); CHOLESTEROL, DIETARY (administration & dosage); COLORIMETRY (methods); DIET, ATHEROGENIC; FEMALE; LIPASE (metabolism); LIPIDS (metabolism); LIPOPROTEIN LIPASE (analysis, metabolism); LIPOPROTEINS (metabolism); MYOCARDIUM (enzymology); RABBITS; TRIOLEIN (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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AMINO ACID SEQUENCE; GASTRIC INHIBITORY POLYPEPTIDE (physiology); GASTRINS (physiology); GASTROINTESTINAL HORMONES (physiology); GASTROINTESTINAL NEOPLASMS (etiology); GASTROINTESTINAL SYSTEM (physiology); GLUCAGON (physiology); HUMAN; METABOLIC DISEASES (etiology); MOLECULAR CONFORMATION; MOTILIN (physiology); RADIOIMMUNOASSAY; SECRETIN (physiology); VASOACTIVE INTESTINAL PEPTIDE (physiology).

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ADULT; ANTIGENIC DETERMINANTS; CHILD; DIABETES MELLITUS (familial & genetic); DISEASES IN TWINS; HUMAN; HL-A ANTIGENS (analysis); TWINS, MONOZYGOTIC.

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ADULT; DOSE-RESPONSE RELATIONSHIP, DRUG; FEMALE; GLUCOSE TOLERANCE TEST (methods); GLUCOSE (administration & dosage); HUMAN; INSULIN (blood); MALE; MIDDLE AGE.

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ADULT; ATENOLOL (pharmacodynamics); BLOOD SUGAR (metabolism); CLINICAL RESEARCH; COMPARATIVE STUDY; DOUBLE-BLIND METHOD; FASTING; FATTY ACIDS, NONESTERIFIED (blood); FEMALE; HUMAN; INSULIN (pharmacodynamics); MALE; PLACEBO; PROPRANOLOL (pharmacodynamics); PROPRANOLOL (pharmacodynamics).

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INFLUENCE OF BASAL INSULIN AND GLUCAGON SECRETION ON POTASSIUM AND SODIUM METABOLISM. STUDIES WITH SOMATOSTATIN IN NORMAL DOGS AND IN NORMAL AND DIABETIC HUMAN BEINGS. DeFronzo RA, Sherwin RS, Dillingham M, Hender R, Tamborlane WV, Felig P *J Clin Invest* 61: 472-9, Feb 78 (Eng) DL/78MAY330

ADULT; ANIMAL; DIABETES MELLITUS (metabolism); DOGS; FEMALE; GLUCAGON (physiology, secretion); HUMAN; INSULIN (physiology, secretion); MALE; MIDDLE AGE; POTASSIUM CHLORIDE (pharmacodynamics); POTASSIUM (metabolism); SODIUM (metabolism); SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics); U.S. GOVT SUPPORTED, N.I.H. ).

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COMPARATIVE STUDY; HUMAN; HYPERINSULINISM (diagnosis, etiology); HYPERPLASIA (blood); INSULIN (blood); ISLANDS OF LANGERHANS (pathology); ISLET CELL TUMOR (blood); PANCREATIC NEOPLASMS (blood); SOMATOTROPIN RELEASE INHIBITING HORMONE (diagnostic use); TOLBUTAMIDE (diagnostic use).

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FACTORS); OXIDATIVE PHOSPHORYLATION; PHOSPHOLIPIDS (analysis); PROTEIN CONFORMATION; REVIEW.

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ANIMAL; DOSE-RESPONSE RELATIONSHIP, DRUG; GLUCOSE (pharmacodynamics); INSULIN (secretion); ISLANDS OF LANGERHANS (metabolism); KINETICS; MODELS, BIOLOGICAL; RATS; U.S. GOVT SUPPORTED, NON-N.I.H. ).

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GLYCOLYSIS IN QUIESCENT CULTURES OF 3T3 CELLS. STIMULATION BY SERUM, EPIDERMAL GROWTH FACTOR, AND INSULIN IN INTACT CELLS AND PERSISTENCE OF THE STIMULATION AFTER CELL HOMOGENIZATION. Diamond I, Legg A, Schneider JA, Rozengurt E *J Biol Chem* 253: 866-71, 10 Feb 78 (Eng) DL/78MAY325  
BLOOD; CALCIUM (pharmacodynamics); CELL-FREE SYSTEM; CELLS, CULTURED (metabolism); CYCLOHEXIMIDE (pharmacodynamics); EPIDERMAL GROWTH FACTORS (pharmacodynamics); GLUCOSE (pharmacodynamics); GLYCOLYSIS (drug effects); INSULIN (pharmacodynamics); LACTATES (biosynthesis); NUCLEOTIDES, CYCLIC (pharmacodynamics); OUABAIN (pharmacodynamics); PEPTIDES (pharmacodynamics).

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**ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); ADENOSINE DIPHOSPHATE GLUCOSE (biosynthesis); AMMONIA (metabolism); ESCHERICHIA COLI (drug effects, metabolism); GLUCOSE (metabolism); GLYCOGEN (biosynthesis); KINETICS, NUCLEOTIDYLTRANSFERASES (metabolism); SUCCINATES (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).**

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**INFLUENCE OF BASAL INSULIN AND GLUCAGON SECRETION ON POTASSIUM AND SODIUM METABOLISM. STUDIES WITH SOMATOSTATIN IN NORMAL DOGS AND IN NORMAL AND DIABETIC HUMAN BEINGS.** DeFronzo RA, Sherwin RS, Dillingham M, Hender R, Tamborlane WV, Felig P. *J Clin Invest* 61: 472-9, Feb 78 (Eng) DL/78MAY330

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**BLOOD VISCOSITY; DIABETIC RETINOPATHY (blood); ERYTHROCYTE AGGREGATION; ERYTHROCYTES (pathology); FIBRINOGEN (analysis); HEMATOCRIT; HUMAN; SERUM ALBUMIN (analysis); SERUM GLOBULINS (analysis).**

**BLOOD VISCOSITY FACTORS AND CAPILLARY ABNORMALITIES IN DIABETES.** Dintenfass L, Davis E. *Bibl Anat* 425-7, 1977 (Eng) DL/78MAY574

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## Diop B

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[CARBOHYDRATE METABOLIC DISORDERS IN ACUTE AND CHRONIC LIVER DISEASES IN CHILDREN] Arsenava EN, Ermolenko RI, Peterkova VA *Sov Med* 36-9, Dec 77 (Rus) DL/78MAY452

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[SOCIAL WELFARE LEGISLATIONS OFFER TO HELP DIABETICS] Espersen H *Sygeplejersken* 70: 5, 29, 14 Dec 77 (Dan) DL/78MAY464  
DENMARK; DIABETES MELLITUS; HUMAN; SOCIAL WELFARE; SOCIAL WORK.

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CALCITONIN (adverse effects, chemical synthesis); DIABETES MELLITUS (chemically induced); HUMAN; SALMON.

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ADULT; AGED; AUTONOMIC NERVOUS SYSTEM (physiopathology); DIABETIC NEUROPATHIES (diagnosis, physiopathology); ELECTROCARDIOGRAPHY (economics); FEMALE; HEART RATE; HUMAN; MALE; MIDDLE AGE; NERVOUS SYSTEM DISEASES (physiopathology); POSTURE.

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HISTOLOGICAL AND HISTOCHEMICAL STUDY OF THE GINGIVA IN DIABETIC PATIENTS. Fahim MS, Atia MA *Egypt Dent J* 21: 61-6, Oct 75 (Eng) DL/78MAY266  
ADULT; DIABETES MELLITUS (complications); FEMALE; GINGIVAL DISEASES (etiology); HUMAN.

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[BLOOD LEVEL OF HYPERGLYCEMIA AND IMMUNOREACTIVE INSULIN IN BURN SHOCK] Shurygin Dia, Mazurov VI, Fedorov IuP *Voen Med Zh* 36-8, Dec 77 (Rus) DL/78MAY481

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[INVESTIGATION ON THE INFLUENCE OF HUMAN PLACENTAL LACTOGEN (HPL) ON GLUCOSE METABOLISM AND SERUM INSULIN LEVELS IN PREGNANT AND NON-PREGNANT WOMEN (AUTHORS TRANS)] Feige A, Mitzkat HJ *Z Geburtshilfe Perinatol* 181: 413-20, Dec 77 (Ger) DL/78MAY497  
ADULT; ANTIGENS (isolation & purification); BLOOD SUGAR (metabolism); ENGLISH ABSTRACT; FEMALE; HUMAN; INJECTIONS, INTRAVENOUS; INSULIN (blood); PANCREAS (drug effects); PLACENTAL LACTOGEN (administration & dosage, pharmacodynamics); PREGNANCY TRIMESTER, THIRD; PREGNANCY; STIMULATION, CHEMICAL.

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MEMBRANE WATER CHANNELS AND SH-GROUPS. Shaafi RI, Feinstein MB *Adv Exp Med Biol* 84: 67-83, 1977 (Eng) \*DL/78MAY142

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C-FRAGMENT OF LIPOTROPIN--AN ENDOGENOUS POTENT ANALGESIC PEPTIDE. Feldberg W, Smyth DG *Br J Pharmacol* 60: 445-53, Jul 77 (Eng) \*DL/78MAY15

ANALGESICS AND ANTIPYRETICS; ANIMAL; BLOOD SUGAR (metabolism); CATALEPSY (chemically induced); CATS; ENDORPHINS (pharmacodynamics); ENKEPHALINS (pharmacodynamics); FEMALE; LIPOTROPIN (analogs & derivatives, pharmacodynamics); MALE; NALOXONE (pharmacodynamics); PEPTIDE FRAGMENTS (pharmacodynamics); PEPTIDES (pharmacodynamics); TIME FACTORS.

## Felig P

INFLUENCE OF BASAL INSULIN AND GLUCAGON SECRETION ON POTASSIUM AND SODIUM METABOLISM. STUDIES WITH SOMATOSTATIN IN NORMAL DOGS AND IN NORMAL AND DIABETIC HUMAN BEINGS. DeFronzo RA, Sherwin RS, Dillingham M, Hender R, Tamborlane WV, Felig P *J Clin Invest* 61: 472-9, Feb 78 (Eng) DL/78MAY330

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REGULATION IN VITRO AND IN VIVO OF ADENOSINE 3:5-MONOPHOSPHATE-DEPENDENT INACTIVATION OF RAT-LIVER PYRUVATE KINASE TYPE L. Feliu JE, Hue L, Hers HG *Eur J Biochem* 81: 609-17, Dec 77 (Eng) DL/78MAY272

ADENOSINE CYCLIC-3,5-MONOPHOSPHATE (pharmacodynamics); ADENOSINE TRIPHOSPHATE (pharmacodynamics); AMINO ACIDS (pharmacodynamics); ANIMAL; DIABETES MELLITUS, EXPERIMENTAL (enzymology); FRUCTOSEDIPHOSPHATES (pharmacodynamics); GLUCAGON (pharmacodynamics); IN VITRO; ISOENZYMES

(antagonists & inhibitors); KINETICS; LIVER (drug effects, enzymology); MAGNESIUM (pharmacodynamics); PYRUVATE KINASE (antagonists & inhibitors, metabolism); RATS; U.S. GOVT SUPPORTED, N.I.H. ).

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EFFECT OF BROMOCRYPTINE ON THE SECRETION OF THYROTROPIC HORMONE (TSH), PROLACTIN (PR), HUMAN GROWTH HORMONE (HGH), THYROXINE (T4) AND TRIIODOTHYRONINE (T3) IN HYPOTHYROIDISM. Felt V, Nedvdkova J *Horm Metab Res* 9: 274-7, Jul 77 (Eng) \*DL/78MAY53  
ADULT; AGED; COMPARATIVE STUDY; ERGOTOXINE (pharmacodynamics); FEMALE; HUMAN; HYPOTHYROIDISM (blood); MIDDLE AGE; PROLACTIN (blood); SOMATOTROPIN (blood); THYROTROPIN RELEASING HORMONE (diagnostic use); THYROTROPIN (blood); THYROXINE (blood); TRIIODOTHYRONINE (blood); 2-BROMOERGOCRYPTINE (pharmacodynamics).

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COMPARATIVE ASPECTS OF BRAIN BARRIER SYSTEMS FOR NONELECTROLYTES. Cserr HF, Fenstermacher JD, Rall DP *Am J Physiol* 234: r52-60, Jan 78 (Eng) DL/78MAY542

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ANIMAL; COMPARATIVE STUDY; CYTOTOXICITY TESTS, IMMUNOLOGIC; DIABETES MELLITUS (familial & genetic, immunology, metabolism); DNA (biosynthesis); HEMOLYTIC PLAQUE TECHNIQUE; IN VITRO; LYMPHOCYTES (immunology); MICE; MICE, INBRED C57BL; ORGAN WEIGHT; SKIN (transplantation); SPLEEN (immunology, metabolism); THYMUS GLAND (immunology, metabolism); TRANSPLANTATION IMMUNOLOGY (transplantation); TRANSPLANTATION, ALLOGENEIC (transplantation); U.S. GOVT SUPPORTED, N.I.H. ).

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[SENSITIVITY OF THE CENTRAL NUCLEI OF THE VAGUS TO INSULIN DEFICIENCY IN RATS (HISTOENZYMOLGIC STUDY)] Ak-maev IG, Rabkina AE, Fidelina OV *Bull Eksp Biol Med* 84: 734-7, Dec 77 (Rus) DL/78MAY223

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APOLIPOPROTEINS (physiology); ENZYME ACTIVATION; HUMAN; KINETICS; LIPID MOBILIZATION; LIPOPROTEIN LIPASE (isolation & purification, metabolism); LIPOPROTEINS, VLDL (physiology); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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ADULT; AGE FACTORS; CIRCADIAN RHYTHM; DIABETES MELLITUS (blood); ENGLISH ABSTRACT; FEMALE; HUMAN; IRON (blood); MALE; MIDDLE AGE; NORMAL VALUES; SEX FACTORS.

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[RETINOPATHY AND ANGIOPATHY IN DIABETES OF FIFTY TO SIXTY YEARS DURATION (AUTHORS TRANSL)] Fischer F *Klin Monatsbl Augenheilkd* 171: 770-3, Nov 77 (Ger) DL/78MAY359

ADOLESCENCE; ADULT; AGE FACTORS; AGED; CHILD; CHILD, PRESCHOOL; CORONARY DISEASE (diagnosis); DIABETES MELLITUS, JUVENILE (complications); DIABETIC ANGIOPATHIES (diagnosis); DIABETIC NEPHROPATHIES (diagnosis); DIABETIC NEUROPATHIES (diagnosis); DIABETIC RETINOPATHY (diagnosis); ENGLISH ABSTRACT; FEMALE; FOLLOW-UP STUDIES; HUMAN; MALE; MIDDLE AGE; RETINAL HEMORRHAGE (diagnosis).

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DEXTROSTAX: REVISITED. McCleave DJ, Fisher MM *Anaesth Intensive Care* 5: 258-9, Aug 77 (Eng) \*DL/78MAY152

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ELECTRICAL POTENTIAL DIFFERENCES ACROSS SALT TRANSPORTING MEMBRANES. Fletcher CR *J Theor Biol* 67: 255-68, 21 Jul 77 (Eng) \*DL/78MAY79  
BIOLOGICAL TRANSPORT; CHLORIDES (metabolism); ELECTRIC CONDUCTIVITY; MEMBRANE POTENTIALS; MODELS, BIOLOGICAL; POTASSIUM (metabolism); SODIUM (metabolism); THERMODYNAMICS.

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THE ROLE OF THE GLUCOSE-6-PHOSPHATE IN THE PHOSPHORYLASE B KINASE ACTIVATION FOUND IN PERFUSED RAT HEARTS TREATED BY DINITROPHENOL. Vercesi AE, Focesi A Jr *Am Acad Bras Cienc* 48: 347-52, Jun 76 (Eng) \*DL/78MAY156

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ADIPOSE TISSUE (metabolism); ANIMAL; ARABINOSE (diagnostic use, metabolism); BIOLOGICAL TRANSPORT (drug effects); CELLS, CULTURED; CYTOCHALASIN B (pharmacodynamics); DEXAMETHASONE (pharmacodynamics); GLUCOSE (metabolism); INSULIN (pharmacodynamics); KINETICS; MALE; METHYLGUCOSIDES (metabolism); MODELS, BIOLOGICAL; RATS; U.S. GOVT SUPPORTED, N.I.H. ).

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RESPIRATORY ACIDOSIS AND ITS REVERSIBILITY IN PERFUSED RAT HEART: REGULATION OF CITRIC ACID CYCLE ACTIVITY. Schaffer SW, Safer B, Ford C, Illingworth J, Williamson JR *Am J Physiol* 234: h40-51, Jan 78 (Eng) DL/78MAY540

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ACCLIMATIZATION; ADRENAL MEDULLA (physiology); ANIMAL; BLOOD SUGAR (metabolism); COLD; DOGS; FEMALE; HOMEOSTASIS.

EFFECT OF EPINEPHRINE UPON IRREVERSIBLE DISPOSAL AND RECYCLING OF GLUCOSE IN DOGS. Forichon J, Jomain MJ, Schellhorn J, Minaire Y *Experientia* 33: 1171-3, 15 Sep 77 (Eng) \*DL/78MAY37

ADRENALACTOMY; ANIMAL; BLOOD SUGAR (metabolism); BODY TEMPERATURE; COLD; DOGS; DOSE-RESPONSE RELATIONSHIP, DRUG; EPINEPHRINE (pharmacodynamics); FEMALE; GLUCOSE (metabolism); KINETICS.

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RUBELLA INFECTION AND DIABETES MELLITUS. Menser MA, Forrest JM, Bransby RD *Lancet* 1: 57-60, 14 Jan 78 (Eng) DL/78MAY370

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SERUM LEVELS OF IMMUNOREACTIVE GASTRIC INHIBITORY POLYPEPTIDE AND INSULIN IN URAEMIC PATIENTS. Matthaei D, Ebert R, Schauder P, Frerichs H, Creutzfeldt W, Scheler F *Proc Eur Dial Transplant Assoc* 14: 550-6, 1977 (Eng) DL/78MAY424

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REACTION OF PYRIDOXAL 5-PHOSPHATE WITH ESCHERICHIA COLI COA TRANSFERASE: EVIDENCE FOR AN ESSENTIAL LYSINE RESIDUE. Frerman FE, Andreone P, Mielke D *Arch Biochem Biophys* 181: 508-15, Jun 77 (Eng) \*DL/78MAY170

ACETOACETATES (metabolism); ACETYL COA ACYLTRANSFERASE (antagonists & inhibitors); ACYLTRANSFERASES (antagonists

& inhibitors); BINDING SITES (drug effects); COENZYME A (metabolism); DIACETYL (pharmacodynamics); ESCHERICHIA COLI (enzymology); KINETICS; LYSINE (metabolism); PYRIDOXAL PHOSPHATE (metabolism, pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

SUBSTRATE-INDUCED CONFORMATIONAL CHANGES AND HALF-THE-SITES REACTIVITY IN THE ESCHERICHIA COLI COA TRANSFERASE. Sramek SJ, Frerman FE, McCormick DJ, Duncombe GR *Arch Biochem Biophys* 181: 525-33, Jun 77 (Eng) \*DL/78MAY171

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[PSYCHOSOMATIC PROBLEMS IN THE TREATMENT OF OBESITY] Freyberger H *Verh Dtsch Ges Inn Med* 82 pt 2: 1383-8, 1976 (Ger) \*DL/78MAY118

FEMALE; HUMAN; MALE; OBESITY (therapy); PSYCHOPHYSIOLOGIC DISORDERS (complications); PSYCHOTHERAPY (methods).

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EFFECT OF GLUCOCORTICOID ON AMINO ACID TRANSPORT IN ISOLATED RAT HEPATOCYTES. Le Cam A, Freychet P *Mol Cell Endocrinol* 9: 205-14, Dec 77 (Eng) DL/78MAY294

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HORMONE RECEPTORS. Friedberg F *Horiz Biochem Biophys* 4: 63-90, 1977 (Eng) DL/78MAY312

ACETYLCHOLINE; ANIMAL; CYTOSOL (physiology); DNA (analysis); ELECTROPHORUS (anatomy & histology); FEMALE; FISHES (anatomy & histology); GLUCAGON; HUMAN; MALE; NOREPINEPHRINE; RECEPTORS, ADRENERGIC, BETA (analysis, physiology); RECEPTORS, ANDROGEN (analysis, physiology); RECEPTORS, CHOLINERGIC (analysis, physiology); RECEPTORS, ESTROGEN (analysis, physiology); RECEPTORS, GLUCOCORTICOID (analysis, physiology); RECEPTORS, HORMONE (analysis, physiology); RECEPTORS, INSULIN (analysis, physiology); RECEPTORS, PROGESTERONE (analysis, physiology); RNA POLYMERASES (metabolism).

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[HORMONAL REGULATION OF THE ELECTRICAL PROPERTIES OF THE CELL MEMBRANE] Frolkis VV *Probl Endokrinol (Mosk)* 23: 86-93, Nov-Dec 77 (Rus) DL/78MAY418

ANIMAL; ANTIMETABOLITES (pharmacodynamics); CELL MEMBRANE (physiology); DACTINOMYCIN (pharmacodynamics); DESOXYCORTICOSTERONE (physiology); ELECTRIC CONDUCTIVITY; ELECTROPHYSIOLOGY; ENGLISH ABSTRACT; EPINEPHRINE (physiology); ESTRADIOL (physiology); HORMONES (physiology); HYDROCORTISONE (physiology); INSULIN (physiology); MEMBRANE POTENTIALS (drug effects, radiation effects); RATS; SOMATOTROPIN (physiology).

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THE INFLUENCE OF DIABETES MELLITUS AND HYPERCORTICISM ON THE WOUND HEALING OF EXPERIMENTAL MYOCARDIAL INFARCTION IN RATS. Kranz D, Hecht A, Fuhrmann I, Keim U *Exp Pathol (Jena)* 14: 1-8, Jul-Aug 77 (Eng) DL/78MAY273



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**STIMULATION BY GASTRIC INHIBITORY POLYPEPTIDE OF INSULIN AND GLUCAGON SECRETION BY RAT ISLET CULTURES.** Fujimoto WY, Ensink JW, Merchant FW, Williams RH, Smith PH, Johnson DG *Proc Soc Exp Biol Med* 157: 89-93, Jan 78 (Eng) DL/78MAY432

**AMINO ACIDS (pharmacodynamics); CELLS, CULTURED; GASTRIC INHIBITORY POLYPEPTIDE (analysis, pharmacodynamics); GASTROINTESTINAL HORMONES (pharmacodynamics); GLUCAGON (secretion); GLUCOSE (pharmacodynamics); INSULIN (secretion); ISLANDS OF LANGERHANS (analysis, drug effects, secretion); U.S. GOVT SUPPORTED, N.I.H. ).**

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**[HEALTH EDUCATION FOR THE MANAGEMENT OF OBESITY: BASED ON DATA FROM THE PRELIMINARY SURVEY.** I.J. Nagayama S, Sugimura N, Yamashita T, Fujita S *Jpn J Public Health Nurs* 33: 480-2, Aug 77 (Jpn) \*DL/78MAY73

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**UNIPHASIC INSULIN-SECRETORY RESPONSE IN THE PANCREATIC VEIN OF DOGS AFTER AN ENTERIC GLUCOSE LOAD.** Chacra AR, Fujita Y, Herron AL Jr, Seltzer HS *Diabetes* 27: 21-6, Jan 78 (Eng) DL/78MAY297

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**GLUCOCORTICOID AND FETAL LUNG DEVELOPMENT.** Funkhouser JD, Hughes ER *J Steroid Biochem* 8: 519-24, May 77 (Eng) DL/78MAY361

**ANIMAL; CHOLINE (metabolism); DEXAMETHASONE (pharmacodynamics); DNA (biosynthesis); GESTATIONAL AGE; INSULIN (pharmacodynamics); LUNG (drug effects, embryology, metabolism); ORGAN CULTURE; PHOSPHOLIPIDS (biosynthesis); PROTEINS (biosynthesis); RATS; TRIODOTHYRONINE (pharmacodynamics).**

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**COMPARISON OF THE EFFECTS OF CARBAMOYLCHOLINE, PANCREOZYMIN AND SECRETIN ON LIPID METABOLISM IN THE RAT PANCREAS, INCUBATED IN THE PRESENCE OF [3H] 20, [U-14C] GLUCOSE, OR [1-14C] ACETATE [PROCEEDINGS].** Calderon P, Furnelle J, Christophe J *Arch Int Physiol Biochem* 85: 389-90, Apr 77 (Eng) \*DL/78MAY181

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**ACTION OF BENZYLCLANE-HYDROGEN-FUMARATE ON THE CARBOHYDRATE METABOLISM OF BOVINE LENS HOMOGENATES.** Hockwin O, Korte I, Loth C, Ohloff C, Fuss R, Schmidt G *Arzneim Forsch* 27: 1417-20, Jul 77 (Eng) \*DL/78MAY203

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**HLA ANTIGENS IN SARDINIAN PATIENTS WITH DIABETES MELLITUS.** Contu L, Pugheddu A, Mura C, Gabbas A *Diabete Metab* 3: 263-7, Dec 77 (Eng) DL/78MAY290

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**[IRON, COPPER, MOLYBDENUM AND OTHER TRACE ELEMENT METABOLISM IN EXPERIMENTAL DIABETES MELLITUS]** Gabovich RD, Mikhaliuk IA *Vopr Pitan* 25-9, Nov-Dec 77 (Rus) DL/78MAY484

**ANIMAL; CHRONIC DISEASE; COMPARATIVE STUDY; COPPER (metabolism); DIABETES MELLITUS, EXPERIMENTAL (metabolism); GLUCOSE TOLERANCE TEST; IRON (metabolism); MALE; MANGANESE (metabolism); MOLYBDENUM (metabolism); NICKEL**

**(metabolism); RATS; TRACE ELEMENTS (metabolism).**

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**EFFECT ON CARBOHYDRATE METABOLISM OF HYPOTENSIVE ADRENERGIC NEURONE BLOCKING AGENTS.** Pogatsa G, Kaldor A, Gachalyi B *Acta Med Acad Sci Hung* 33: 339-44, 1976 (Eng) DL/78MAY510

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**RESPONSE TO GLUCOSE LOADING OF THE LEAN SQUIRREL MONKEY IN UNRESTRAINED CONDITIONS.** Ausman LM, Gallina DL *Am J Physiol* 234: r20-4, Jan 78 (Eng) DL/78MAY541

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**METABOLIC RESPONSE IN SHOCK.** Garcia-Barreno P, Balibrea JL *Surg Gynecol Obstet* 146: 182-9, Feb 78 (Eng) DL/78MAY456

**ACIDOSIS (etiology); ANIMAL; BLOOD SUGAR (analysis); BLOOD VOLUME; CATECHOLAMINES (blood); COMPARATIVE STUDY; DOGS; FATTY ACIDS, NONESTERIFIED (blood); GLUCAGON (blood); GLUCOSE (metabolism); HYPERGLYCEMIA (etiology); HYPOGLYCEMIA (etiology); INSULIN (blood); LACTATES (blood); OXYGEN CONSUMPTION; SHOCK (metabolism); SHOCK, SEPTIC (metabolism); TRIGLYCERIDES (blood).**

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**[PROLACTIN SECRETION AND SYNTHESIS BY HUMAN SOMATOTROPIN ADENOMAS: IN VITRO EFFECT OF SOMATOSTATIN (SRIF) (AUTHORS' TRANSL.)** Peillon F, Cesselin F, Garnier PE, Brandi AM, Donnadieu M, Mauborgne A, L'Hermite M *Ann Endocrinol (Paris)* 38: 165-6, Mar-Apr 77 (Fre) \*DL/78MAY159

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**BODY WEIGHT; CALORIC INTAKE; ENERGY METABOLISM; HUMAN; OBESITY (metabolism).**

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**CAMP MEDIATED DECREASE IN MEMBRANE PHOSPHORYLATION.** Gates RE, Kang ES *Biochem Biophys Res Commun* 77: 606-12, 25 Jul 77 (Eng) \*DL/78MAY188

**ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); ADIPOSE TISSUE (enzymology); ANIMAL; ENZYME ACTIVATION; IN VITRO; KINETICS; MALE; MEMBRANE PROTEINS (metabolism); MEMBRANES (metabolism); MICROSOMES (enzymology); MOLECULAR WEIGHT; PROTEIN KINASE (metabolism); RATS;**

**UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).**

## Gatley SJ

**THE SYNTHESIS OF HIPPURATE FROM BENZOATE AND GLYCINE BY RAT LIVER MITOCHONDRIA. SUBMITOCHONDRIAL LOCALIZATION AND KINETICS.** Gatley SJ, Sherratt HS *Biochem J* 166: 39-47, 15 Jul 77 (Eng) \*DL/78MAY183

**ADENOSINE TRIPHOSPHATE (metabolism); ANIMAL; ANTIMETABOLITES (pharmacodynamics); BENZOATES (metabolism); CITRULLINE (biosynthesis); COENZYME A (metabolism); GLYCINE (metabolism); HIPPURATES (biosynthesis); IN VITRO; KINETICS; MALE; MITOCHONDRIA, LIVER (metabolism); OXYGEN CONSUMPTION; RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).**

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**FINE STRUCTURAL CHANGES IN DOG MYOCARDIUM EXPOSED TO LOWERED PH IN VIVO.** Armiger LC, Seelye RN, Phil D, Elswijk JG, Carnell VM, Gavin JB, Herdson PB *Lab Invest* 37: 237-42, Sep 77 (Eng) \*DL/78MAY75

## Gaza S

**[PRECLINICAL DIABETES MELLITUS IN CHILDREN]** Alexandru E, Popa I, Deutsch G, Bergel E, Gaza S, Bugeag M *Rev Pediatr Obstet Ginecol [Pediatri]* 26: 221-30, Jul-Sep 77 (Rum) DL/78MAY440

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**ENERGY SOURCES FOR AMINO ACID TRANSPORT IN ANIMAL CELLS.** Heinz E, Geck P, Pietrzyk C, Burckhardt G, Pfeiffer B *J Supramol Struct* 6: 125-33, 1977 (Eng) \*DL/78MAY77

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**[LONG-TERM RESULTS OF FASTING THERAPY]** Willms B, Ederleh C, Geisler M *Verh Dtsch Ges Inn Med* 82 pt 2: 1425-7, 1976 (Ger) \*DL/78MAY125

## Genes SG

**[ROLE OF B-CELL ADRENERGIC RECEPTORS OF THE PANCREATIC INSULAR APPARATUS IN INSULIN SECRETION (REVIEW)]** Genes SG, Poltorak VV *Patol Fiziol Eksp Ter* 78-84, Nov-Dec 77 (Rus) DL/78MAY412

**ADENOSINE CYCLIC-3,5-MONOPHOSPHATE (physiology); ALPRENOLOL (pharmacodynamics); ANIMAL; BUTOXAMINE (pharmacodynamics); DICHLOROISOPROTERENOL (pharmacodynamics); DOGS; EPINEPHRINE (pharmacodynamics); ERGOTAMINE (pharmacodynamics); HUMAN; INSULIN (secretion); ISLANDS OF LANGERHANS (secretion); ISOPROTERENOL (pharmacodynamics); NOREPINEPHRINE (pharmacodynamics); PHENOXYBENZAMINE (pharmacodynamics); PHENTOLAMINE (pharmacodynamics); PROPANOLOL (pharmacodynamics); RECEPTORS, ADRENERGIC (physiology); SOTALOL (pharmacodynamics); TRANYLCYPROMINE (pharmacodynamics).**

**[INSULIN-SUBSTITUTE THERAPY IN DIABETES MELLITUS]** Genes SG *Ter Arkh* 49: 126-31, 1977 (Rus) [46 ref.] DL/78MAY467

**DIABETES MELLITUS, JUVENILE (drug therapy); DIABETIC ANGIOPATHIES (etiology);**

## Diabetes Literature—Author Index

### George DT

HUMAN; INSULIN (administration & dosage, therapeutic use); REVIEW.

### George DT

THE EFFECT OF ADRENERGIC AND GANGLIONIC BLOCKERS UPON THE L-DOPA-STIMULATED RELEASE OF GLUCAGON IN THE RAT. George DT, Bailey PT *Proc Soc Exp Biol Med* 157: 1-4, Jan 78 (Eng) DL/78MAY431  
ANIMAL; DOPAMINE (pharmacodynamics); GANGLIONIC BLOCKERS  
GLUCAGON (secretion); LEVODOPA (pharmacodynamics); MALE; PENTOLINUM TARTRATE (pharmacodynamics); PHENTOLAMINE (pharmacodynamics); PROPANOLOL (pharmacodynamics); RATS; SYMPATHOLYTICS (pharmacodynamics).

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IMMUNOHISTOCHEMICAL AND ULTRASTRUCTURAL IDENTIFICATION OF THE PANCREATIC POLYPEPTIDE-PRODUCING CELL (PP-CELL) IN THE HUMAN PANCREAS. Baetens D, De Mey J, Gepts W *Cell Tissue Res* 185: 239-46, 13 Dec 77 (Eng) DL/78MAY242

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HUMAN; ISLANDS OF LANGERHANS (anatomy & histology, cytology); PANCREAS (anatomy & histology); PANCREATIC HORMONES (secretion); PEPTIDES (secretion); REVIEW.

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ISOLATION AND CHARACTERIZATION OF THE OPIOID PEPTIDES FROM RAT PITUITARY: BETA-LIPOTROPIN. Rubinstein M, Stein S, Gerber LD, Udenfriend S *Proc Natl Acad Sci USA* 74: 3052-5, Jul 77 (Eng) \*DL/78MAY92

### Gerlach U

PROPHYLACTIC EFFECT OF SOMATOSTATIN ON STRESS ULCER FORMATION IN RATS. Zierden E, Hengst K, Hossdorf T, Wagner H, Gerlach U *Acta Hepatogastroenterol (Stuttg)* 24: 447-51, Dec 77 (Eng) DL/78MAY509

### Gershbein LL

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AGED; CATARACT (enzymology); CASE REPORT; DIABETIC COMA (complications); FEMALE; HEPATIC COMA (complications); HUMAN; INFANT; METABOLIC DISEASES (complications); MIDDLE AGE; OXYGEN CONSUMPTION.

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5. THE APALLIC SYNDROME IN METABOLIC DISORDERS OF THE BRAIN. Gerstenbrand F, Avenarius HJ, Preisler HP *Monogr Gesamte Psychiatr (Berlin)* 14: 29-36, 1977 (Eng) DL/78MAY392

AGED; AKINETIC MUTISM (etiology); ALCOHOLISM (complications); BRAIN DISEASES (complications); BRAIN EDEMA (complications); BRAIN (metabolism); CASE REPORT; DIABETIC COMA (complications); FEMALE; HEPATIC COMA (complications); HUMAN; INFANT; METABOLIC DISEASES (complications); MIDDLE AGE; OXYGEN CONSUMPTION.

### Ghosh A

A CYTOMORPHOLOGICAL STUDY OF THE ENDOCRINE PANCREAS OF SOME INDIAN BIRDS. Guha B, Ghosh A *Gen Comp Endocrinol* 34: 38-44, Jan 78 (Eng) DL/78MAY309

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A DIGITAL COMPUTER MODEL FOR GLUCOSE-INSULIN DYNAMICS. Lafferty HH, Giddings AE, Mangnall D *Comput Biol Med* 8: 41-55, Jan 78 (Eng) DL/78MAY258

PLASMA INSULIN AND SURGERY. I. EARLY CHANGES DUE TO OPERATION IN THE INSULIN RESPONSE TO GLUCOSE. Giddings AE, Mangnall D, Rowlands BJ, Clark RG *Ann Surg* 186: 681-6, Dec 77 (Eng) DL/78MAY555  
ABDOMEN (surgery); GLUCOSE (metabolism, pharmacodynamics); HUMAN; INSULIN (blood, immunology); MALE; SURGERY, OPERATIVE; TOLBUTAMIDE (pharmacodynamics).

PLASMA INSULIN AND SURGERY. II. LATER CHANGES AND THE EFFECT OF INTRAVENOUS CARBOHYDRATES. Giddings AE, Rowlands BJ, Mangnall D, Clark RG *Ann Surg* 186: 687-93, Dec 77 (Eng) DL/78MAY556  
ABDOMEN (surgery); CARBOHYDRATES (administration & dosage, pharmacodynamics); GLUCOSE (metabolism); HUMAN; HYPOGLYCEMIA (metabolism); INSULIN (blood, immunology, secretion); MALE; PARENTERAL FEEDING; SORBITOL (pharmacodynamics); STARVATION (metabolism); SURGERY, OPERATIVE.

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ANGIOTENSIN STIMULATION OF BOVINE ADRENOCORTICAL CELL GROWTH. Gill GN, Ill CR, Simonian MH *Proc Natl Acad Sci USA* 74: 5569-73, Dec 77 (Eng) DL/78MAY426

ADRENAL CORTEX HORMONES (biosynthesis); ADRENAL CORTEX (cytology, drug effects, metabolism); ANGIOTENSINS (pharmacodynamics); CELL DIVISION (drug effects); CELLS, CULTURED; DNA (biosynthesis); GROWTH SUBSTANCES (pharmacodynamics); INSULIN (pharmacodynamics); U.S. GOVT SUPPORTED, N.I.H.).

### Gillies PJ

EFFECT OF DIETARY DI-2-ETHYLHEXYL PHTHALATE ON OXIDATION OF 14C-PALMITOYL COA BY MITOCHONDRIA FROM MAMMALIAN HEART AND LIVER. Bell FP, Gillies PJ *Lipids* 12: 581-5, Jul 77 (Eng) \*DL/78MAY83

### Gimeno AL

SUBSTRATE REQUIREMENTS IN VITRO FOR THE SPONTANEOUS MOTILITY OF UTERINE STRIPS FROM OVARIECTOMIZED OR NATURAL ESTRUS RATS. RELATIONSHIPS WITH TISSUE LEVELS OF GLYCOGEN AND TRIGLYCERIDES. Gonzales I, Torres RS, Gimeno MF, Gimeno AL *Arch Int Physiol Biochim* 84: 213-27, Apr 76 (Eng) \*DL/78MAY178

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SUBSTRATE REQUIREMENTS IN VITRO FOR THE SPONTANEOUS MOTILITY OF UTERINE STRIPS FROM OVARIECTOMIZED OR NATURAL ESTRUS RATS. RELATIONSHIPS WITH TISSUE LEVELS OF GLYCOGEN AND TRIGLYCERIDES. Gonzales I, Torres RS, Gimeno MF, Gimeno AL *Arch Int Physiol Biochim* 84: 213-27, Apr 76 (Eng) \*DL/78MAY178

### Gladney JH

EXPERIMENTAL DIABETES AND THE INNER EAR. A PROPOSED BIOLOGIC MODEL. Gladney JH *Ann Otol Rhinol Laryngol* 87: 128-34, Jan-Feb 78 (Eng) DL/78MAY553

ANIMAL; CHINCHILLAS (anatomy & histology); COCHLEA (pathology); DIABETES MELLITUS, EXPERIMENTAL (pathology); DISEASE MODELS, ANIMAL; FEMALE; LABYRINTH (pathology); MALE; STREPTOZOTOCIN.

### Glazunov IS

[STANDARDIZATION OF THE ANALYSIS OF CHOLESTEROL AND GLUCOSE ACCORDING TO THE INTERNATIONAL PROGRAM I. DESCRIPTION OF THE METHODS AND VARIOUS ASPECTS OF STANDARDIZATION] Toleikis AI, Glazunov IS, Margiavichene LE *Ter Arkh* 49: 31-3, 1977 (Rus) \*DL/78MAY108

### Gleason RE

CHRONOLOGIC AND PHYSIOLOGIC AGE AFFECT REPLICATIVE LIFE-SPAN OF FIBROBLASTS FROM DIABETIC, PRE-DIABETIC, AND NORMAL DONORS. Goldstein S, Moerman EJ, Soeldner JS, Gleason RE, Barnett DM *Science* 199: 781-2, 17 Feb 78 (Eng) DL/78MAY446

### Globus M

EFFECTS OF TRICAINE METHANE SULPHONATE (M.S. 222) ON THE BLOOD GLUCOSE LEVELS IN ADULT SALAMANDERS (DIEMICTYLUS VIRIDESCENS). Vethamany-Globus S, Globus M, Fraser I *Experientia* 33: 1027, 15 Aug 77 (Eng) \*DL/78MAY35

### Gnoni GV

REDUCED ACTIVITY OF HEPATIC MICROSOMAL FATTY ACID CHAIN ELONGATION SYNTHESIS IN CLOFIBRATE-FED RATS. Landriscina C, Ruggiero FM, Gnoni GV, Quagliariello E *Biochem Pharmacol* 26: 1401-4, 1 Aug 77 (Eng) \*DL/78MAY194

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CYCLIC GMP METABOLISM AND INVOLVEMENT IN BIOLOGICAL REGULATION. Goldberg ND, Haddox MK *Annu Rev Biochem* 46: 823-96, 1977 (Eng) [603 ref.] \*DL/78MAY166

ADENOSINE TRIPHOSPHATE (pharmacodynamics); ANIMAL; CALCIUM (pharmacodynamics); ENZYME ACTIVATION; GUANOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism, pharmacodynamics); GUANYL CYCLASE (metabolism); HORMONES (pharmacodynamics); KINETICS; LIPIDS (pharmacodynamics); MOLECULAR WEIGHT; MYOCARDIAL CONTRACTION (drug effects); NEURONS (drug effects, physiology); OPERON; ORGAN SPECIFICITY; OXIDATION-REDUCTION; PHOSPHODIESTERASES; PROTEIN KINASE (metabolism); PROTEINS (physiology); RETINA (enzymology); REVIEW; SPECIES SPECIFICITY.

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ISOLATION AND PARTIAL PURIFICATION OF CATFISH PANCREATIC ISLET MESSENGER RNA. Permutt MA, Boime I, Chyn R, Goldford M *Biochemistry* 17: 537-43, 7 Feb 78 (Eng) DL/78MAY216

### Goldman JK

HEPATIC ENZYME ACTIVITIES IN WEANLING RATS WITH VENTROMEDIAL AND DORSOMEDIAL HYPOTHALAMIC LESIONS. Bernardis LL, Rosen F, Goldman JK, Martin R *J Neurosci Res* 3: 115-25, 1977 (Eng) DL/78MAY346

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### Goldstein M

HYPERCHLOREMIC METABOLIC ACIDOSIS IN DIABETES MELLITUS: A CASE REPORT AND DISCUSSION OF PATHOPHYSIOLOGIC MECHANISMS. Hammeke M, Bear R, Lee R, Goldstein M, Halperin M *Diabetes* 27: 16-20, Jan 78 (Eng) DL/78MAY296

**Goldstein S**

**CHRONOLOGIC AND PHYSIOLOGIC AGE AFFECT REPLICATIVE LIFE-SPAN OF FIBROBLASTS FROM DIABETIC, PREDIABETIC, AND NORMAL DONORS.** Goldstein S, Moerman EJ, Soeldner JS, Gleason RE, Barnett DM *Science* 199; 781-2, 17 Feb 78 (Eng) DL/78MAY446

ADOLESCENCE; ADULT; AGED; AGING; CELL DIVISION; CELL SURVIVAL; CELLS, CULTURED; DIABETES MELLITUS (pathology, physiopathology); FIBROBLASTS (cytology, pathology); HUMAN; MIDDLE AGE; PREDIABETIC STATE (pathology, physiopathology); REGRESSION ANALYSIS; SKIN (cytology, pathology); U.S. GOVT SUPPORTED, N.I.H. )

**Gomez-Pan A**

**COMPARISON OF THE EFFECT OF SOMATOSTATIN ON GASTROINTESTINAL FUNCTION IN THE CONSCIOUS AND ANAESTHETIZED CAT AND ON THE ISOLATED CAT PANCREAS.** Albinus M, Blair EL, Case RM, Coy DH, Gomez-Pan A, Hirst BH, Reed JD, Schally AV, Shaw B, Smith PA, Smy JR *J Physiol (Lond)* 269: 77-91, Jul 77 (Eng) DL/78MAY70

**Goncalves A**

**[OROFACIODIGITAL SYNDROME ASSOCIATED WITH JUVENILE DIABETES. REPORT OF A CASE]** Goncalves A *Rev Hosp Clin Fac Med Sao Paulo* 32: 184-5, Jun 77 (Por) DL/78MAY442

ABNORMALITIES, MULTIPLE (complications); ADULT; CASE REPORT; DIABETES MELLITUS, JUVENILE (complications); ENGLISH ABSTRACT; FEMALE; HUMAN; OROFACIODIGITAL SYNDROME (complications, familial & genetic, radiography).

**Gonzales I**

**SUBSTRATE REQUIREMENTS IN VITRO FOR THE SPONTANEOUS MOTILITY OF UTERINE STRIPS FROM OVARECTOMIZED OR NATURAL ESTRUS RATS. RELATIONSHIPS WITH TISSUE LEVELS OF GLYCOGEN AND TRIGLYCERIDES.** Gonzales I, Torres RS, Gimeno MF, Gimeno AL *Arch Int Physiol Biochim* 84: 213-27, Apr 76 (Eng) \*DL/78MAY178

ANIMAL; CASTRATION; ESTRUS; FEMALE; FRUCTOSE (pharmacodynamics); GLUCOSE (pharmacodynamics); GLYCOGEN (metabolism); GLYCOLYSIS; IN VITRO; LACTATES (pharmacodynamics); PYRUVATES (pharmacodynamics); RATS; TRIGLYCERIDES (metabolism); UTERINE CONTRACTION (drug effects); UTERUS (metabolism).

**Gooren L**

**BLOCKADE OF ISOPRENALINE-INDUCED CHANGES IN PLASMA FREE FATTY ACIDS, IMMUNOREACTIVE INSULIN LEVELS AND PLASMA RENIN ACTIVITY IN HEALTHY HUMAN SUBJECTS, BY PROPANOLOL, PINDOLOL, PRACTOLOL, ATENOLOL, METOPROLOL AND ACEBUTOLOL.** Harms HH, Gooren L, Spoelstra AJ, Hesse C, Verschoor L *Br J Clin Pharmacol* 5: 19-26, Jan 78 (Eng) DL/78MAY209

**Gordienko VM**

**[DIABETES MELLITUS AND CARDIOVASCULAR SYSTEM DISEASES IN MIDDLE AGE]** Efimov AS, Gordienko VM, Slavov VN, Sviatolik GV, Kaminskii LA *Kardiologiya* 17: 133-9, Nov 77 (Rus) DL/78MAY357

**Gordon IuN**

**[PROBLEMS OF OPTIMIZING THE DISPENSARY OBSERVATION OF DIABETES MELLITUS PATIENTS IN A CITY POLYCLINIC]** Gordon IuN, Liberman LM, Davydova FB *Sov Med* 87-92, Dec 77 (Rus) DL/78MAY454

ABSENTEEISM; ADULT; AGED; AMBULATORY CARE; DIABETES MELLITUS (complications, occurrence, therapy); ENGLISH ABSTRACT; FEMALE; HUMAN; MALE; MIDDLE AGE; QUALITY OF HEALTH CARE; UKRAINE; URBAN POPULATION.

**Got R**

**[LIBERATION AND REASSOCIATION OF THE MICROSOMAL MEMBRANE GLUCOKINASE IN CAT LIVER]** Azzar G, Got R *Biochimie* 59: 303-9, 1977 (Fre) \*DL/78MAY9

**Gotz H**

**[IMMUNOSUPPRESSION AND FORMATION OF ANTIBODIES. THE INFLUENCE OF A SYNTHETIC ACTH DRUG ON ANTIBODY FORMATION IN THE RABBIT (AUTHORS TRANSL)]** Gotz H, Nuttmann R, Schneider HH, Weller H *Arzneim Forsch* 27: 1365-73, Jul 77 (Ger) \*DL/78MAY202

ANIMAL; ANTIBODY FORMATION (drug effects); ANTIGENS (isolation & purification); BLOOD PROTEINS (metabolism); BLOOD SUGAR (metabolism); CELLS, CULTURED; CORTICOTROPIN (analogs & derivatives); COSYNTROPIN (adverse effects, pharmacodynamics); ELECTROPHORESIS; ENGLISH ABSTRACT; HUMAN; IMMUNOELECTROPHORESIS; IN VITRO; LEUKOCYTE COUNT; LIPIDS (blood); LYMPHOCYTES (drug effects, immunology); RABBITS.

**Graber AL**

**COORDINATED METABOLIC AND OBSTETRIC MANAGEMENT OF DIABETIC PREGNANCY.** Boehn FH, Graber AL, Hicks MM *South Med J* 71: 37-42, Jan 78 (Eng) DL/78MAY449

**Grabner E**

**[LONG-TERM STUDY ON 680 OBESE PERSONS AFTER SHORT-TERM OR CONTRAST AMBULATORY CARE USING A LOW CARBOHYDRATE AND PROTEIN-RICH DIET]** Lageder H, Brandle J, Grabner E, Irsigler K *Verh Dtsch Ges Inn Med* 82 pt 2: 1430-3, 1976 (Ger) \*DL/78MAY127

**Graf L**

**ISOLATION AND EVOLUTION OF THE GASTROINTESTINAL HORMONES.** Graf L *Acta Physiol Acad Sci Hung* 47: 285-98, 1976 (Eng) [34 ref.] DL/78MAY515

AMINO ACID SEQUENCE; ANIMAL; CHOLECYSTOKININ (isolation & purification); EVOLUTION; FISHES; FROGS; GASTRINS (isolation & purification); GASTROINTESTINAL HORMONES (genetics, history, isolation & purification); GENES; GLUCAGON (analysis); MOLECULAR CONFORMATION; MSH (analysis); PHYLOGENY; PITUITARY HORMONES (analysis); REVIEW; SECRETIN (analysis, isolation & purification).

**Greenwood AG**

**CONTROL OF DIABETES IN A CAPUCHIN MONKEY WITH TOLBUTAMIDE.** Greenwood AG, Taylor DC *Vet Rec* 101: 407-8, 12 Nov 77 (Eng) DL/78MAY479

ANIMAL; DIABETES MELLITUS (diet therapy, drug therapy, veterinary); MALE; MONKEY DISEASES (diet therapy, drug therapy); MONKEYS; TOLBUTAMIDE (therapeutic use).

**Grekov P**

**[TOPICAL DIAGNOSIS OF NESIDIOMA BY ESTIMATING INSULIN WITHDRAWN AT DIFFERENT LEVELS (AUTHORS TRANSL)]** Renker B, Kandrac M, Matejcek E, Grekov P *Cas Lek Cesk* 116: 1470-2, 25 Nov 77 (Slo) DL/78MAY241

**Grieve RJ**

**DISTRIBUTION OF VARIOUS CORONARY RISK FACTORS IN AN URBAN GENERAL PRACTICE.** Grieve RJ *NZ Med J* 86: 178-81, 24 Aug 77 (Eng) DL/78MAY407

ADOLESCENCE; ADULT; AGED; CORONARY DISEASE (occurrence); FAMILY PRACTICE; FEMALE; HUMAN; HYPERGLYCEMIA (occurrence); HYPERLIPIDEMIA (occurrence); HYPERTENSION (occurrence); MALE; MIDDLE AGE; NEW ZEALAND; OBESITY (occurrence); RISK; SMOKING (occurrence); URBAN POPULATION.

**Grillo MA**

**S-ADENOSYLMETHIONINE DECARBOXYLASE IN LIVER, HEART AND PANCREAS OF PYRIDOXINE-DEFICIENT CHICKENS.** Grillo MA, Bedino S *Ital J Biochem* 26: 342-6, Sep-Oct 77 (Eng) DL/78MAY319

ANIMAL; CARBOXY-LYASES (metabolism); CHICKENS; COMPARATIVE STUDY; INSULIN (pharmacodynamics); LIVER (enzymology); MALE; MYOCARDIUM (enzymology); ORGAN SPECIFICITY; PANCREAS (enzymology); PYRIDOXINE DEFICIENCY (enzymology); S-ADENOSYLMETHIONINE DECARBOXYLASE (metabolism).

**Groves AC**

**ARTERIAL PLASMA AMINO ACIDS IN PATIENTS WITH SEVERE BURNS.** Groves AC, Moore JP, Woolf LI, Duff JH *Surgery* 83: 138-43, Feb 78 (Eng) DL/78MAY458

ABDOMEN (surgery); ALANINE (blood); AMINO ACIDS (blood); BURNS (blood); COMPARATIVE STUDY; GLUCAGON (blood); HUMAN; INSULIN (blood); PHENYLALANINE (blood).

**Grumet FC**

**HLA AND DISEASE ASSOCIATIONS.** Grumet FC *Transplant Proc* 9: 1830-44, Dec 77 (Eng) DL/78MAY474

DIABETES MELLITUS, JUVENILE (familial & genetic); DISEASE (immunology); GENE FREQUENCY; GENES; GENOTYPE; HODGKINS DISEASE (familial & genetic); HUMAN; HL-A ANTIGENS (genetics); IMMUNITY; PEDIGREE.

**Gruner HJ**

**[LONG-TERM EXPERIENCES WITH A COMPUTER-ASSISTED REDUCING-DIET PROGRAM]** Knick B, Knick J, Edenhofner S, Gruner HJ, Kasper H *Verh Dtsch Ges Inn Med* 82 pt 2: 1433-8, 1976 (Ger) \*DL/78MAY128

**Guay AT**

**DIABETES INSIPIDUS IN PREGNANCY: A CASE REVIEW.** Phelan JP, Guay AT, Newman C *Am J Obstet Gynecol* 130: 365-6, 1 Feb 78 (Eng) DL/78MAY534

**Guderley H**

**GLUCONEOGENIC CONTROL ADAPTATIONS IN CANCER MAGISTER: HYPODERMAL PYRUVATE KINASE, AN ENZYME WITH HIGH- AND LOW-AFFINITY STATES.** Guderley H, Hochachka PW *Arch Biochem Biophys* 182: 465-77, Aug 77 (Eng) \*DL/78MAY173

ALANINE (pharmacodynamics); ANIMAL; CALCIUM (pharmacodynamics); CRABS; GLUCONEOGENESIS; KINETICS; MAGNESIUM (pharmacodynamics); MANGANESE (pharmacodynamics); POTASSIUM (pharmacodynamics); PYRUVATE KINASE (isolation & purification, metabolism); SKIN (enzymology); SODIUM (pharmacodynamics).

**Guerinon J**

**[IMMEDIATE AND LONG TERM PROGNOSIS OF RECENT MYOCARDIAL INFARCTION]** Sellier P, Leger P, Diebold B, Hoffmann J,

## Guha B

Guerinon J, Ourbak P, Maurice P *Arch Mal Coeur* 70: 115-62, Nov 77 (Fre) DL/78MAY559

## Guha B

**A CYTOMORPHOLOGICAL STUDY OF THE ENDOCRINE PANCREAS OF SOME INDIAN BIRDS.** Guha B, Ghosh A *Gen Comp Endocrinol* 34: 38-44, Jan 78 (Eng) DL/78MAY309

ANIMAL; BIRDS (anatomy & histology); COMPARATIVE STUDY; INDIA; ISLANDS OF LANGERHANS (anatomy & histology, cytology); SPECIES SPECIFICITY.

## Guillemin R

**BETA-ENDORPHIN AND ADRENOCORTICOTROPIN ARE SELECTED CONCOMITANTLY BY THE PITUITARY GLAND.** Guillemin R, Vargo T, Rossier J, Minick S, Ling N, Rivier C, Vale W, Bloom F *Science* 197: 1367-9, 30 Sep 77 (Eng) \*DL/78MAY105

AMINO ACID SEQUENCE; ANIMAL; CORTICOTROPIN RELEASING HORMONE (pharmacodynamics); CORTICOTROPIN (blood, secretion); ENDORPHINS (blood, secretion); HYPOPHYSECTOMY; MALE; PEPTIDES (secretion); PITUITARY GLAND (secretion); PROTEIN PRECURSORS (secretion); RATS; STRESS (blood); TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

## Gundersen HJ

**THE EFFECT OF INTRAVENOUS INJECTION OF INSULIN. LOSS OF INTRAVASCULAR ALBUMIN AND WATER AND INCREASED ADRENERGIC NERVOUS ACTIVITY IN DIABETICS.** Christensen NJ, Gundersen HJ *Bibl Anat* 450-2, 1977 (Eng) DL/78MAY581

## Guthrie RA

**DIABETES MELLITUS: PERSPECTIVES IN 1978.** Guthrie RA, Rosenbloom AL 24: *SIDES A & B*, 37 MIN., 17 Jan 78 (Eng) DL/78MAY568

ATTITUDE TO HEALTH; CHILD; DIABETES MELLITUS, JUVENILE (complications, diet therapy, drug therapy, therapy); DIABETIC DIET; DIABETIC RETINOPATHY (etiology); HUMAN; INSULIN (administration & dosage); VASCULAR DISEASES (etiology).

## Gutman M

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AMINO ACIDS; AMMONIA (blood); ANIMAL; ARGININE (metabolism, therapeutic use); CITRATES (metabolism); DOGS (metabolism); HYPERGLYCEMIA (etiology); NUTRITIONAL REQUIREMENTS; OROTIC ACID (metabolism); SIALORRHEA (etiology); TREMOR (etiology); UREA (metabolism).

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ADOLESCENCE; ADULT; AGE FACTORS; AGED; BLOOD SUGAR (metabolism); ENGLISH ABSTRACT; FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (secretion); MALE; MIDDLE AGE.

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**BLOCKADE OF ISOPRENALINE-INDUCED CHANGES IN PLASMA FREE FATTY ACIDS, IMMUNOREACTIVE INSULIN LEVELS AND PLASMA RENIN ACTIVITY IN HEALTHY HUMAN SUBJECTS, BY PROPRANOLOL, PINDOLOL, PRACTOLOL, ATENOLOL, METOPROLOL AND ACEBUTOLOL.** Harms HH, Gooren L, Spoelstra AJ, Hesse C, Verschoor L *Br J Clin Pharmacol* 5: 19-26, Jan 78 (Eng) DL/78MAY209

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ultrastructure); PHOSPHATES (pharmacodynamics); RATS; YTTRIUM (pharmacodynamics).

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THE DIABETIC FOOT. Harrower AD *Br J Clin Pract* 31: 147-8, Oct 77 (Eng) DL/78MAY212  
DIABETES MELLITUS (complications); FEMALE; FOOT DISEASES (etiology, therapy); GANGRENE (etiology); HUMAN; MALE.

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[HEPATIC HYPOGLYCAEMIA (AUTHORS TRANSL)] Hartl O, Clodi PH *Wien Klin Wochenschr* 90: 85-7, 3 Feb 78 (Ger) DL/78MAY491

ADULT; CASE REPORT; DIAGNOSIS, DIFFERENTIAL; ENGLISH ABSTRACT; HUMAN; HYPOGLYCAEMIA (diagnosis, etiology); LIVER CIRRHOSIS (complications); MALE; MIDDLE AGE.

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ADULT; AMINO ACIDS; BLOOD SUGAR (analysis); HUMAN; MIDDLE AGE; NITROGEN (metabolism); PARENTERAL FEEDING; PARENTERAL HYPERALIMENTATION; POSTOPERATIVE CARE; PROTEINS (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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ADULT; CONTRACEPTIVES, ORAL (adverse effects); CONTRACEPTIVES, ORAL, HORMONAL (adverse effects); DIABETES MELLITUS (chemically induced); FEMALE; HUMAN; HYPERLIPEMIA (chemically induced); HYPERTENSION (chemically induced).

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ADRENAL GLANDS (physiology); ANIMAL; BLOOD SUGAR (metabolism); COMPARATIVE STUDY; DOSE-RESPONSE RELATIONSHIP; DRUG; EPINEPHRINE (pharmacodynamics); FEMALE; FROGS; HEMATOCRIT; MALE; NOREPINEPHRINE (pharmacodynamics); RANA CATESBEIANA (blood).

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ANABOLIC ACTIONS OF REDUCED AND S-CARBAMIDOMETHYLATED HUMAN GROWTH HORMONE AND ITS PLASMIN DIGEST IN MAN. Heysfield SB, Bethel RA, Hall EC, Mills JB, Moseley MH, Kostyo JL, Rudman D *J Clin Invest* 60: 563-70, Sep 77 (Eng) \*DL/78MAY62  
ADOLESCENCE; CHILD; DOSE-RESPONSE RELATIONSHIP; DRUG; FEMALE; FIBRINOLYSIS (metabolism); HUMAN; MALE; SOMATOTROPIN (analogs & derivatives, deficiency, pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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COMPARISON OF THE EFFECT OF SOMATOSTATIN ON GASTROINTESTINAL FUNCTION IN THE CONSCIOUS AND ANAESTHETIZED CAT AND ON THE ISOLATED CAT PANCREAS. Albinus M, Blair EL, Case RM, Coy DH, Gomez-Pan A, Hirst BH, Reed JD, Schally AV, Shaw B, Smith PA, Smy JR *J Physiol (Lond)* 269: 77-91, Jul 77 (Eng) \*DL/78MAY70

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ADENOSINE DIPHOSPHATE (metabolism); ADENOSINE MONOPHOSPHATE (metabolism); ADENOSINE TRIPHOSPHATE (metabolism); ANIMAL; BENCYCLANE (pharmacodynamics); CARBOHYDRATES (metabolism); CARBON DIOXIDE (biosynthesis); CATTLE; CYCLOHEPTANES (pharmacodynamics); FUMARATES (metabolism); IN VITRO; LENS, CRYSTALLINE (drug effects, metabolism); OXYGEN CONSUMPTION (drug effects); TIME FACTORS.

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MATERNAL-FOETAL GLUCOSE KINETICS IN CONSCIOUS, CATHETERISED SHEEP. Hodgson JC, Mellor DJ *Proc Nutr Soc* 36: 33-40, May 77 (Eng) [31 ref.] \*DL/78MAY96  
ANIMAL; BLOOD SUGAR (metabolism); FEMALE; FETAL BLOOD (metabolism); FETUS (metabolism); GLUCOSE (metabolism); JUGULAR VEIN; KINETICS; MATERNAL-FETAL EXCHANGE; MODELS, BIOLOGICAL; NUTRITIONAL REQUIREMENTS; PREGNANCY; PREGNANCY, ANIMAL; REVIEW; SHEEP (metabolism); UMBILICAL ARTERIES; UMBILICAL VEINS.

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[IMMEDIATE AND LONG TERM PROGNOSIS OF RECENT MYOCARDIAL INFARCTION] Sellier P, Leger P, Diebold B, Hoffmann J, Guerinon J, Ourbak P, Maurice P *Arch Mal Coeur* 70: 115-62, Nov 77 (Fre) DL/78MAY559

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[THYROID HORMONES IN OBESITY. FURTHER ONSET-POINTS FOR HORMONAL THERAPY] Scriba PC, Hofmann GG *Verh Dtsch Ges Inn Med* 82 pt 2: 1398-403, 1976 (Ger) \*DL/78MAY121

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MS, Witten DM, Russell RO, Rackley CE, Hogg DE *Chest* 73: 179-82, Feb 78 (Eng) DL/78MAY259

**Holder AT**

**ACTIONS OF GROWTH HORMONE, PROLACTIN AND THYROXINE ON SERUM SOMATOMEDIN-LIKE ACTIVITY AND GROWTH IN HYPOPHYSECTOMIZED DWARF MICE.** Holder AT, Wallis M *J Endocrinol* 74: 223-9, Aug 77 (Eng) \*DL/78MAY65  
ANIMAL; BODY WEIGHT (drug effects); DOSE-RESPONSE RELATIONSHIP, DRUG; DWARFISM, PITUITARY (blood); FEMALE; GROWTH (drug effects); MALE; MICE; PROLACTIN (pharmacodynamics); SOMATOMEDIN (blood); SOMATOTROPIN (pharmacodynamics); THYROXINE (pharmacodynamics).

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**EFFECT OF DIABETES ON GROWTH OF MOUSE LYMPHOMA P1798 [LETTER]** Rollan A, Stevens J, Hollander VP *Acta Physiol Lat Am* 26: 221-3, 1976 (Eng) DL/78MAY519

**Hollinger AP**

**EFFECT OF GASTRIC ANTRUM ON REGULATION OF LOWER ESOPHAGEAL SPHINCTER PRESSURE IN THE DOG.** Koelz HR, Hollinger AP, Sauberli H, Largiadier F, Siwert R, Blum AL *Am J Physiol* 234: e157-61, Feb 78 (Eng) DL/78MAY545

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**THE TURNOVER OF BLOOD GLUCOSE AND PLASMA FREE FATTY ACIDS IN THE RAT AFTER ACUTE CARBON DISULPHIDE INTOXICATION.** Cunningham VJ, Holt DE *Biochem Pharmacol* 26: 1625-9, 1 Sep 77 (Eng) \*DL/78MAY198

**Holtje HD**

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BIOLOGICAL TRANSPORT; BIOLOGICAL TRANSPORT, ACTIVE; DIFFUSION; MEMBRANES (metabolism).

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**[PRE- AND POSTOPERATIVE INSULIN SECRETION IN WOMEN WITH BREAST CANCER (PROCEEDINGS)]** Muck BR, Hommel G, Roehrig A *Arch Gynaecol* 224: 294-5, 29 Jul 77 (Ger) DL/78MAY563

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**IN VITRO CAMP, ALDOSTERONE AND CORTISOL RESPONSES OF ADULT HUMAN ADRENOCORTICAL TISSUE TO ACTH AND HUMAN GROWTH HORMONE.** Honn KV, Chavin W *Experientia* 33: 1237-8, 15 Sep 77 (Eng) \*DL/78MAY38  
ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ADRENAL CORTEX (metabolism); ADRENAL GLANDS (metabolism); ALDOSTERONE (metabolism); CORTICOTROPIN (pharmacodynamics); DRUG INTERACTIONS; FEMALE; HUMAN; HYDROCORTISONE (metabolism); IN VITRO; SOMATOTROPIN (pharmacodynamics); TISSUE CULTURE.

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**[PATHOMORPHOLOGY OF THE HEART IN ANGINA PECTORIS]** Hopker WW, Nussel E, Pasternak G *Med Welt* 29: 8-15, 6 Jan 78 (Ger) DL/78MAY381  
ADULT; AGED; ANGINA PECTORIS (etiology, pathology); CORONARY VESSELS (pathology); DEATH, SUDDEN (pathology); DIABETES MELLITUS (complications); FEMALE; HUMAN; HYPERCHOLESTEREMIA (complications);

HYPERLIPEMIA (complications); HYPERTENSION (complications); MALE; MIDDLE AGE; MYOCARDIUM (pathology); RISK; SEX FACTORS; SMOKING (complications); TRIGLYCERIDES (blood); URIC ACID (blood).

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**EFFECT OF INSULIN ON PROTEIN TURNOVER IN FOETAL LIMBS.** Chrystie S, Horn J, Sloan I, Stern M, Noakes D, Young M *Proc Nutr Soc* 36: 118a, Dec 77 (Eng) DL/78MAY429

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**COLLAGENASE: AN ADJUNCT TO HEALING TROPHIC ULCERATIONS IN THE DIABETIC PATIENT.** Altman MI, Goldstein L, Horowitz S *J Am Podiatry Assoc* 68: 11-5, Jan 78 (Eng) DL/78MAY333

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ANIMAL; DIABETES MELLITUS, EXPERIMENTAL (drug therapy); INSULIN (therapeutic use); KIDNEY NEOPLASMS (chemically induced, pathology); KIDNEY (pathology); MALE; NEOPLASMS, EXPERIMENTAL (chemically induced); RATS; STREPTOZOTOCIN (toxicity).

**Horvath I**

**ANTEPARTUM GLUCOCORTICOID TREATMENT: THE EFFECT OF PREDNISOLONE ON UMBILICAL BLOOD GLUCOSE, PLASMA FREE FATTY ACIDS AND INDIVIDUAL FREE AMINO ACID LEVELS.** Soltesz G, Horvath I, Mehes K, Mestyan J *Acta Paediatr Acad Sci Hung* 17: 297-301, 1976 (Eng) \*DL/78MAY133

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**PROPHYLACTIC EFFECT OF SOMATOSTATIN ON STRESS ULCER FORMATION IN RATS.** Zierden E, Hengst K, Hossdorf T, Wagner H, Gerlach U *Acta Hepatogastroenterol (Stuttg)* 24: 447-51, Dec 77 (Eng) DL/78MAY509

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**[CHEMICAL DIABETES IN PARENTS OF DIABETIC CHILDREN]** Dvorakova L, Hostomska L, Svoboda Z *Cesk Pediatr* 32: 467-71, Aug 77 (Cze) DL/78MAY244

**Houdent C**

**[PLASMA GROWTH HORMONE IN OBESE PATIENTS. COMPARISON OF RESPONSE TO ARGinine AND L-DOPA (AUTHORS TRANSL.)]** Wolf LM, Ericher S, Houdent C *Ann Endocrinol (Paris)* 38: 173-4, Mar-Apr 77 (Fre) \*DL/78MAY160

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**Howarth F**

**COLOUR BLINDNESS, A HAZARD TO DIABETICS [LETTER]** Thompson DG, Howarth F, Levy IS *Lancet* 1: 44, 7 Jan 78 (Eng) DL/78MAY366

**Hsu SH**

**FURTHER DATA ON HLA RECOMBINATION IN JUVENILE-ONSET DIABETES.** Hsu SH, Hsu TH, Chase GA, Bias WB *Transplant Proc* 9: 1855-8, Dec 77 (Eng) DL/78MAY475  
ADOLESCENCE; ADULT; ANTIGENS; BLOOD GROUPS; CHILD; CHILD, PRESCHOOL;

DIABETES MELLITUS, JUVENILE (familial & genetic); ERYTHROCYTES (immunology); GENES; HISTOCOMPATIBILITY TESTING; HUMAN; HL-A ANTIGENS (genetics); LEUKOCYTE CULTURE TEST, MIXED; POLYMORPHISM (GENETICS) (poisoning); RECOMBINATION, GENETIC; U.S. GOVT SUPPORTED, N.I.H. ).

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**GLUCOCORTICOIDS AND FETAL LUNG DEVELOPMENT.** Funkhouser JD, Hughes ER *J Steroid Biochem* 8: 519-24, May 77 (Eng) DL/78MAY361

**Husemann B**

**[SURGICAL TREATMENT OF OBESITY]** Husemann B *Verh Dtsch Ges Inn Med* 82 pt 2: 1404-10, 1976 (Ger) \*DL/78MAY122  
FEMALE; HUMAN; ILEUM (surgery); JEJUNUM (surgery); METHODS; OBESITY (therapy).

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**Iagodka PN**

**[USE OF INSULIN IN PSYCHIATRY]** Iagodka PN *Med Sestra* 36: 28-30, Sep 77 (Rus) DL/78MAY379

HUMAN; INSULIN (administration & dosage); MENTAL DISORDERS (drug therapy); SHOCK THERAPY, INSULIN; TIME FACTORS.

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**[PROTON TRANSLLOCATION IN MEMBRANES OF SUBMITOCHONDRIAL PARTICLES]** Duntsov AE, Iaguzhinskii LS *Biokhimiia* 42: 1123-7, Jun 77 (Rus) \*DL/78MAY11

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**[MORPHOFUNCTIONAL CHANGES IN THE INSULAR APPARATUS OF THE PANCREAS FOLLOWING HYPOPHYSECTOMY AND ADMINISTRATION OF SOMATOTROPIC HORMONE]** Shevchuk IA, Kovtuniak NA, Iarmolchuk GM, Panchuk NN *Arkhy Anat Gistol Embriol* 73: 68-72, Dec 77 (Rus) DL/78MAY566

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ALCOHOL, ETHYL (blood); ALCOHOLIC INTOXICATION (blood); FRUCTOSE (pharmacodynamics); HUMAN.

**Ichimura H**

**[ANGIOGRAPHY OF CALCAREOUS PANCREATITIS (AUTHORS TRANSL.)]** Nishizawa K, Ito T, Ichimura H, Kure T, Kure T *Rinsho Hoshasen* 22: 1275-9, Dec 77 (Jpn) DL/78MAY353

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ADENOSINE DIPHOSPHATE (metabolism); ADENOSINE TRIPHOSPHATASE (metabolism); ADENOSINE TRIPHOSPHATE (metabolism); ANIMAL; ATRACTYLOSIDE (pharmacodynamics); CYTOCHROMES (metabolism); FATTY ACIDS (metabolism); FLAVOPROTEINS (metabolism); KINETICS; MALE; MITOCHONDRIA, LIVER (drug effects, metabolism, ultrastructure); OLIGOMYCIN (pharmacodynamics); OXIDATIVE PHOSPHORYLATION (drug effects); OXYGEN CONSUMPTION; PROTEINS (metabolism); RATS; TEMPERATURE; THYROIDECTOMY; THYROXINE (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H. ).

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TOTAL PANCREATCTOMY FOR CANCER. AN APPRAISAL OF 65 CASES. Ihse I, Lilja P, Arnesjo B, Bengmark S *Ann Surg* 186: 675-80, Dec 77 (Eng) DL/78MAY554

AGED; FEMALE; HUMAN; HYPOGLYCEMIA (etiology); MALE; MIDDLE AGE; PANCREATCTOMY (methods); PANCREATIC NEOPLASMS (complications, mortality, pathology, surgery); POSTOPERATIVE COMPLICATIONS (poisoning).

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THE METABOLIC RESPONSE TO GALACTOSE AS A MEASURE OF HEPATIC GLUCOSE RELEASE IN MAN. Royle G, Kettellwell MG, Ilic V, Williamson DH *Clin Sci Mol Med* 54: 107-9, Jan 78 (Eng) DL/78MAY255

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[RECEPTOR DISEASES (AUTHORS TRANSL.)] Imura H *Nippon Naibunpi Gakkai Zasshi* 53: 1379-85, 20 Dec 77 (Jpn) [9 ref.] DL/78MAY282

ANIMAL; BARTTERS DISEASE (metabolism); DIABETES MELLITUS (metabolism); ENDOCRINE DISEASES; ENGLISH ABSTRACT; GOITER, EXOPHTHALMIC (metabolism); HUMAN; HYPOTHYROIDISM (congenital, human); MALE; MYASTHENIA GRAVIS (metabolism); OBESITY (metabolism); RECEPTORS, CHOLINERGIC (metabolism); RECEPTORS, HORMONE (metabolism);

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REVIEW; TESTICULAR FEMINIZATION (metabolism).

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PLASMA INSULIN AND GLUCOSE RESPONSES TO GLUCAGON AND CATECHOLAMINES IN THE EUROPEAN SILVER EEL (ANGUILLA ANGUILLA L.). Ince BW, Thorpe A *Gen Comp Endocrinol* 33: 453-9, Dec 77 (Eng) DL/78MAY306

ANIMAL; ARGININE (pharmacodynamics); BLOOD SUGAR; EELS (blood); EPINEPHRINE (pharmacodynamics); GLUCAGON (pharmacodynamics); HYPERGLYCEMIA (chemically induced); INSULIN (blood, secretion); NOREPINEPHRINE (administration & dosage, pharmacodynamics); PORTAL VEIN (physiology); REGIONAL BLOOD FLOW (drug effects).

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THE ROLE OF CARBOHYDRATES, AND OF SUGAR IN PARTICULAR, IN OUR DIET. van Schaik TF, Ing J *Hum Nutr* 30: 377-80, Dec 76 (Eng) \*DL/78MAY63

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ACID-BASE EQUILIBRIUM; ACIDOSIS, RENAL TUBULAR (etiology); CREATININE (urine); DIABETIC NEPHROPATHIES (complications); ENGLISH ABSTRACT; GLOMERULONEPHRITIS (complications); HUMAN; HYDROGEN-ION CONCENTRATION (physiology); KIDNEY FAILURE, CHRONIC (complications, etiology); PYELONEPHRITIS (complications).

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AMINO ACID SEQUENCE; COMPARATIVE STUDY; COMPUTERS; DISULFIDES; INSULIN; MOLECULAR MODELS; PROTEIN CONFORMATION; RELAXIN; STRUCTURE-ACTIVITY RELATIONSHIP; TRYPTOPHAN.

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GLUCOSE TOLERANCE IN BLOOD AND SKIN OF PATIENTS WITH SEBORRHOIC DERMATITIS. Hafiez AA, Kader MM, El-Mofty AM, Ismail AA, Bassili F *Indian J Dermatol* 22: 81-6, Oct 76 (Eng) \*DL/78MAY57

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[FREE CARBOHYDRATE CONTENT OF THE CORTEX AND NUCLEUS OF BOVINE LENSES AS A FUNCTION OF AGEING (AUTHORS TRANSL.)] Ismail RM, Otto KJ *Albrecht von Graefes Arch Klin Ophthalmol* 203: 21-30, 8 Jul 77 (Ger) \*DL/78MAY151

AGE FACTORS; ANIMAL; ASCORBIC ACID (metabolism); CARBOHYDRATES (metabolism);

CATTLE; CHROMATOGRAPHY, GAS; ENGLISH ABSTRACT; FRUCTOSE (metabolism); GLUCOSE (metabolism); INOSITOL (biosynthesis); LENS, CRYSTALLINE (metabolism); RABBITS; RATS; SORBITOL (metabolism).

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GLYCEROLIPID BIOSYNTHESIS IN RAT ADIPOSE TISSUE. EFFECT OF POLYAMINES ON TRIGLYCERIDE SYNTHESIS. Jamdar SC *Arch Biochem Biophys* 182: 723-31, Aug 77 (Eng) \*DL/78MAY175

ACYLTRANSFERASES (metabolism); ADIPOSE TISSUE (drug effects, metabolism); ANIMAL; COENZYME A; DIGLYCERIDES; EDTA (pharmacodynamics); HYDROLASES (metabolism); MAGNESIUM (pharmacodynamics); MALE; MICROSOMES (drug effects, metabolism); PALMITIC ACIDS; PUTRESCINE (pharmacodynamics); RATS; SERUM ALBUMIN, BOVINE; SPERMIDINE (pharmacodynamics); SPERMINE (pharmacodynamics); TRIGLYCERIDES (biosynthesis); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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APUD CELLS (physiology); CELL DIFFERENTIATION; DUMPING SYNDROME (metabolism); GASTRINS (metabolism, physiology); GASTROINTESTINAL HORMONES (physiology); GLUCAGON (metabolism); HUMAN; PEPTIC ULCER (metabolism); REVIEW; SECRETIN (metabolism, physiology); ZOLLINGER-ELLISON SYNDROME (metabolism).



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ACETYL COENZYME A (metabolism, pharmacodynamics); CITRATE SYNTHASE (metabolism); COENZYME A (analogs & derivatives); KETOACID-LYASES (metabolism); KINETICS; MATHEMATICS; MYOCARDIUM (enzymology); OXALOACETATES (metabolism); PROTEIN BINDING; SWINE.

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THE METABOLIC EFFECTS OF INHALED SALBUTAMOL. Bateman SM, Pidgeon J, Spiro SG, Johnson AJ *Br J Clin Pharmacol* 5: 127-9, Feb 78 (Eng) DL/78MAY211

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STIMULATION BY GASTRIC INHIBITORY POLYPEPTIDE OF INSULIN AND GLUCAGON SECRETION BY RAT ISLET CULTURES. Fujimoto WY, Ensink JW, Merchant FW, Williams RH, Smith PH, Johnson DG *Proc Soc Exp Biol Med* 157: 89-93, Jan 78 (Eng) DL/78MAY432

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AN IMPROVED TECHNIQUE FOR THE RAPID CONTINUOUS MEASUREMENT OF WHOLE BLOOD GLUCOSE, SUITABLE FOR CLINICAL APPLICATION IN AN ARTIFICIAL ENDOCRINE PANCREAS. Albisser AM, Leibell BS, Johnson W, Denoga A, Botz CK, Marliiss EB *Med Prog Technol* 5: 141-8, 15 Dec 77 (Eng) DL/78MAY390

## Johnston ID

CARCINOMA OF THE PANCREAS [EDITORIAL] Johnston ID *Clin Oncol* 3: 327-30, Dec 77 (Eng) DL/78MAY253

ANTIBIOTICS, ANTINEOPLASTIC (therapeutic use); ANTIGENS, NEOPLASM (analysis); CARBOHYDRATES (metabolism); DIABETES MELLITUS (therapy); FETUS; GLYCOPROTEINS (analysis); MALABSORPTION SYNDROMES (therapy); PANCREATECTOMY; PANCREATIC JUICE (cytology); PANCREATIC NEOPLASMS (radiotherapy); PROGNOSIS; RIBONUCLEASE (analysis); VATER'S AMPULLA (surgery).

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TOLERANCE TO COLD AND GLUCOSE HOMEOSTASIS IN ADRENAL DEMEDUL-

LATED DOGS. Forichon J, Jomain MJ, Patricot MC, Minaire Y *Experientia* 33: 1070-2, 15 Aug 77 (Eng) \*DL/78MAY36

EFFECT OF EPINEPHRINE UPON IRREVERSIBLE DISPOSAL AND RECYCLING OF GLUCOSE IN DOGS. Forichon J, Jomain MJ, Schellhorn J, Minaire Y *Experientia* 33: 1171-3, 15 Sep 77 (Eng) \*DL/78MAY37

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ACETATES (blood); ANIMAL; BLOOD SUGAR (metabolism); CAROTID ARTERIES; FEMALE; HYDROXYBUTYRATES (blood); LACTATION; MAMMAE (blood supply, metabolism); MILK (metabolism); PREGNANCY; RABBITS; VEINS.

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ALCOHOL OXIDOREDUCTASES (antagonists & inhibitors); ANTICHOLESSTEREMIC AGENTS (pharmacodynamics); CLOFIBRATE (pharmacodynamics); CYCLOHEXIMIDE (pharmacodynamics); HYDROXYCHOLESTEROL (pharmacodynamics); HYDROXYMETHYLGLUTARYL COA REDUCTASES (antagonists & inhibitors); KINETICS; L CELLS (drug effects, enzymology); STRUCTURE-ACTIVITY RELATIONSHIP.

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ADMINISTRATION, ORAL; ADULT; CHROMATOGRAPHY, GAS; CLINICAL RESEARCH; DOSE-RESPONSE RELATIONSHIP, DRUG; DRUG SCREENING; FEMALE; HALF-LIFE; HUMAN; HYPNOTICS AND SEDATIVES; MALE; NITRAZEPAM (administration & dosage, adverse effects, blood); SOMATOTROPIN (blood, metabolism); TIME FACTORS.

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ADENOMA (ultrastructure); ENGLISH ABSTRACT; FEMALE; HUMAN; HYPOGLYCEMIA (pathology); INFANT, NEWBORN; ISLANDS OF LANGERHANS (pathology); ISLET CELL TUMOR (ultrastructure); MALE.

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ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); ANIMAL; ARTERIES (metabolism, physiology); ARTERIOVENOUS FISTULA (metabolism); COMPARATIVE STUDY; DOGS; ENZYME ACTIVATION; FEMALE; GUANOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); KINETICS; MALE; MUSCLE PROTEINS (physiology); ORGAN SPECIFICITY; PHOSPHODIESTERASES (metabolism); PROTEIN KINASE (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; VEINS (metabolism, physiology); 3,5-CYCLIC AMP PHOSPHODIESTERASE (metabolism).

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ADULT; BLOOD PROTEINS (metabolism); BLOOD SUGAR (metabolism); CYTOPLASM (enzymology); CYTOPLASMIC GRANULES (enzymology); DEPRESSION, CHEMICAL; ENZYMES (blood); GLUCOSE (pharmacodynamics); GLYCOLYSIS (drug effects); HUMAN; IN VITRO; IODOACETATES (pharmacodynamics); LEUKOCYTES (drug effects, enzymology, metabolism); SODIUM FLUORIDE (pharmacodynamics).

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ADOLESCENCE; ADULT; AMYLASES (secretion); BICARBONATES (secretion); ENDOCRINE GLANDS (secretion); ENGLISH ABSTRACT; EXOCRINE GLANDS (secretion); HUMAN; INSULIN (secretion); PANCREAS (injuries, secretion); PANCREATITIS (physiopathology); TRYPSIN (secretion).

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DIABETES MELLITUS, JUVENILE (prevention & control, psychology); FEMALE; HUMAN; MALE.

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DIABETES MELLITUS, HUMAN; PATIENT COMPLIANCE; PATIENT PARTICIPATION; PATIENTS (education).

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ANIMAL; BRAIN CHEMISTRY; CATS; CORTICOTROPIN; DOGS; DUODENUM (analysis); GASTRIC MUCOSA (analysis, cytology); HUMAN; IMMUNOLOGIC TECHNIQUES; INTESTINAL MUCOSA (analysis, cytology); ISLANDS OF LANGERHANS (analysis, cytology); MONKEYS; PEPTIDES (analysis); RATS; SPINAL CORD (analysis).

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BREAST FEEDING; FEMALE; HUMAN; PATIENT CARE PLANNING; PREGNANCY IN DIABETES (therapy); PREGNANCY.

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ANIMAL; CYTOCHROME REDUCTASES (metabolism); KINETICS; MICROSOMES, LIVER (enzymology); NADPH CYTOCHROME C REDUCTASE (isolation & purification, metabolism); OXIDATION-REDUCTION; PEPTIDE HYDROLASES; SOLUBILITY; SULFHYDRYL COMPOUNDS (analysis); SWINE.

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AMINO ACIDS (metabolism); AMINOISOBUTYRIC ACID (metabolism); ANIMAL; BIOLOGICAL TRANSPORT, ACTIVE (drug effects); CARRIER PROTEINS (biosynthesis); CYCLOHEXIMIDE (pharmacodynamics); DACTINOMYCIN (pharmacodynamics); DEXAMETHASONE (pharmacodynamics); DOSE-RESPONSE RELATIONSHIP, DRUG; DRUG SYNERGISM; EPINEPHRINE (pharmacodynamics); GLUCAGON (pharmacodynamics); GLUCOCORTICOIDS (pharmacodynamics); HYDROCORTISONE (pharmacodynamics); IN VITRO; INSULIN (pharmacodynamics); KINETICS; LIVER (drug effects, metabolism); MALE; RATS.

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PLASMA GLUCAGON AND CLINICAL CONTROL OF MATURITY-ONSET TYPE DIABETES. EFFECTS OF DIET, PLACEBO AND GLIPIZIDE. Lecomte MJ, Luyckx AS, Lefebvre PJ *Diabetes Metab* 3: 239-43, Dec 77 (Eng) DL/78MAY286

ADULT; AGED; BLOOD SUGAR (metabolism); CLINICAL RESEARCH; DIABETES MELLITUS (diet therapy, drug therapy, therapy); FATTY ACIDS, NONESTERIFIED (blood); FEMALE; GLIPIZIDE (therapeutic use); GLUCAGON (blood); HUMAN; INSULIN (blood); MALE; MIDDLE AGE; PLACEBOS; SULFONYLUREA COMPOUNDS (therapeutic use).

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[PHYSICAL FITNESS DURING PREGNANCY] Lehmann V *Med Klin* 72: 1313-9, 26 Aug 77 (Ger) [23 ref.] \*DL/78MAY84

ACID-BASE EQUILIBRIUM; ACIDOSIS; BLOOD PRESSURE; BLOOD SUGAR; FEMALE; HEART RATE; HUMAN; OXYGEN CONSUMPTION; PHYSICAL FITNESS; PREGNANCY TRIMESTER, FIRST; PREGNANCY TRIMESTER, THIRD; PREGNANCY; RESPIRATION; REVIEW.

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AN IMPROVED TECHNIQUE FOR THE RAPID CONTINUOUS MEASUREMENT OF WHOLE BLOOD GLUCOSE, SUITABLE FOR CLINICAL APPLICATION IN AN ARTIFICIAL ENDOCRINE PANCREAS. Albisser AM, Leibel BS, Johnson W, Denoga A, Botz CK, Marliess EB *Med Prog Technol* 5: 141-8, 15 Dec 77 (Eng) DL/78MAY390

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ANIMAL; CHEMISTRY; CHORDATA (anatomy & histology); CYCLOSTOMES (anatomy & histology, metabolism); ENDOCRINE GLANDS (anatomy & histology, embryology); EVOLUTION; GASTRINS (metabolism); GLUCAGON (metabolism); HORMONES (genetics); INSECTS (anatomy & histology, metabolism); INSULIN (secretion); MOLLUSCA (anatomy & histology, metabolism); REVIEW; VERTEBRATES (anatomy & histology, metabolism).

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EFFECT OF PERINATAL MONOSODIUM GLUTAMATE TREATMENT ON ENDOCRINE FUNCTIONS OF RATS IN MATURITY. Lengvari I *Acta Biol Acad Sci Hung* 28: 133-41, 1977 (Eng) DL/78MAY507

ADRENAL GLANDS (physiology); ANIMAL; ANIMALS, NEWBORN; BODY WEIGHT (drug effects); CORTICOSTERONE (blood); FEMALE; GLUCOSE TOLERANCE TEST; GLUTAMATES (pharmacodynamics); MALE; ORGAN WEIGHT (drug effects); OVARY (physiology); PITUITARY GLAND (physiology); RATS; SEX FACTORS; SODIUM GLUTAMATE (pharmacodynamics); TESTIS (physiology); THYROID GLAND (physiology).

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PREVENTING STROKE AFTER TIA. Leonberg SC Jr, Elliott FA *Am Fam Physician* 17: 179-83, Jan 78 (Eng) DL/78MAY529

ADULT; AGED; BLOODLETTERING; CAROTID ARTERY THROMBOSIS (surgery); CEREBRAL ISCHEMIA, TRANSIENT (complications, diagnosis, prevention & control); CEREBROVASCULAR DISORDERS (prevention & control); CORONARY DISEASE (drug therapy); DIABETES MELLITUS (drug therapy); ENDARTERECTOMY; FEMALE; HUMAN; HYPERTENSIA (drug therapy); HYPERTENSION (drug therapy); MALE;

MIDDLE AGE; OBESITY (diet therapy); POLYCYTHEMIA (surgery); PROGNOSIS; RISK; SMOKING (prevention & control); STRESS, PSYCHOLOGICAL.

#### Leonhartsberger J

[DIABETIC ANGIOPATHY AND LIVER CIRRHOSIS] Leonhartsberger J *Wien Med Wochenschr* 128: 17-9, 15 Jan 78 (Ger) DL/78MAY492

ADULT; AGED; DIABETIC ANGIOPATHIES (complications); DIABETIC RETINOPATHY (etiology); FEMALE; HUMAN; LIVER CIRRHOSIS (complications); MALE; MIDDLE AGE; TIME.

#### Lestrade H

[THE PREVALENCE AND INCIDENCE OF JUVENILE ONSET INSULIN-DEPENDENT DIABETES MELLITUS IN FRANCE (AUTHORS TRANSL)] Lestrade H, Besse J *Diabete Metab* 3: 229-34, Dec 77 (Fre) DL/78MAY284

ADOLESCENCE; ADULT; AGE FACTORS; CHILD; CHILD, PRESCHOOL; DIABETES MELLITUS, JUVENILE (drug therapy, occurrence); ENGLISH ABSTRACT; FEMALE; FRANCE; HUMAN; INFANT; INFANT, NEWBORN; INSULIN (therapeutic use); MALE; SEX FACTORS; TIME FACTORS.

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STUDIES ON LIPOSOMES. Leuzinger W, da Matta AN *Acad Bras Cienc* 48: 305-12, Jun 76 (Eng) \*DL/78MAY155

BIOLOGICAL TRANSPORT; CELL MEMBRANE PERMEABILITY; COMPARATIVE STUDY; LIPOSOMES (physiology); MEMBRANE LIPIDS (physiology); PROTEIN BINDING; PROTEINS (metabolism).

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INFLUENCE OF MEAL FREQUENCY ON BODY WEIGHT, PLASMA METABOLITES, AND GLUCOSE AND CHOLESTEROL METABOLISM IN THE DOG. Romosor D, Belo PS, Bergen WG, Leveille GA *J Nutr* 108: 2, 8-47, Feb 78 (Eng) DL/78MAY338

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NEUTRAL AMINO ACID TRANSPORT IN SURFACE MEMBRANE VESICLES ISOLATED FROM MOUSE FIBROBLASTS: INTRINSIC AND EXTRINSIC MODELS OF REGULATION. Lever JE *J Supramol Struct* 6: 103-24, 1977 (Eng) \*DL/78MAY76

AMINO ACIDS (metabolism); BIOLOGICAL TRANSPORT, ACTIVE; CELL LINE; CELL MEMBRANE (drug effects, metabolism); CELL TRANSFORMATION, NEOPLASTIC; CHLOROMERCURIPHENYLSULFONATE (pharmacodynamics); FIBROBLASTS (metabolism); KINETICS; MEMBRANE POTENTIALS (drug effects); MICE; MODELS, BIOLOGICAL; MONENSIN (pharmacodynamics); NIGERICIN (pharmacodynamics); POTASSIUM (pharmacodynamics); SODIUM (pharmacodynamics); SPECIES SPECIFICITY; SV40 VIRUS, UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; VALINOMYCIN (pharmacodynamics).

#### Levy IS

COLOUR BLINDNESS, A HAZARD TO DIABETICS [LETTER] Thompson DG, Howarth F, Levy IS *Lancet* 1: 44, 7 Jan 78 (Eng) DL/78MAY366

#### Levy-Toledano S

EFFECT OF SOMATOSTATIN ON PLATELET AGGREGATION AND PLASMA FACTOR VIII LEVEL IN NORMAL MAN. Bensoussan D, Levy-Toledano S, Passa P, Caen J, Canivet J *Diabete Metab* 3: 223-7, Dec 77 (Eng) DL/78MAY283

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METABOLIC EFFECTS OF PANCREATCTOMY AND HYPOPHYSECTOMY IN THE YELLOW AMERICAN EEL, *ANGUILLA ROSTRATA* LESUEUR. Epplé A, Lewis TL *Gen Comp Endocrinol* 32: 294-315, Jul 77 (Eng) \*DL/78MAY51

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ISOLATION AND PRIMARY STRUCTURE OF BETA-ENDORPHIN AND BETA-LIPOTROPIN FROM BOVINE PITUITARY GLANDS. Li CH, Tan L, Chung D *Biochem Biophys Res Commun* 77: 1088-93, 8 Aug 77 (Eng) \*DL/78MAY191

AMINO ACID SEQUENCE; ANIMAL; CATTLE; ENDORPHINS (isolation & purification); LIPOTROPIN (isolation & purification); PEPTIDE FRAGMENTS (analysis); PEPTIDES (isolation & purification); PITUITARY GLAND (analysis); TRYPSIN.

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TRANSPORT OF L-PROLINE AND D-GLUCOSE IN LUMINAL (BRUSH BORDER) AND CONTRALUMINAL (BASAL-LATERAL) MEMBRANE VESICLES FROM THE RENAL CORTEX. Slack EN, Liang T, Sacktor B *Biochem Biophys Res Commun* 77: 891-7, 8 Aug 77 (Eng) \*DL/78MAY192

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EXTRAPANCREATIC GLUCAGON IN CONTROL OF GLUCOSE TURNOVER IN DEPANCREATIZED DOGS. Ross G, Lickley L, Vranic M *Am J Physiol* 234: e213-19, Feb 78 (Eng) DL/78MAY548

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6. APALLIC SYNDROME FOLLOWING PROTRACTED HYPOGLYCEMIA. Liebaltd GP, Schleip I *Monogr Gesamtegeb Psychiatr (Berlin)* 14: 37-43, 1977 (Eng) DL/78MAY393

ADENOMA (complications); ADULT; AKINETIC MUTISM (etiology, pathology); ATROPHY; CASE REPORT; CAUDATE NUCLEUS (pathology); CEREBRAL CORTEX (metabolism, pathology); FEMALE; GANGLIA (pathology); HUMAN; HYPOGLYCEMIA (complications, etiology); ISLET CELL TUMOR (complications); NECROSIS; OXYGEN CONSUMPTION; PANCREATIC NEOPLASMS (complications); PUTAMEN (pathology).

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AMPHETAMINE (therapeutic use); APPETITE DEPRESSANTS (therapeutic use); CELLULOSE (therapeutic use); HUMAN; OBESITY (drug therapy); THYROID HORMONES (therapeutic use).

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TOTAL PANCREATECTOMY FOR CANCER. AN APPRAISAL OF 65 CASES. Ihse I, Lilja P, Arnesjo B, Bengmark S *Ann Surg* 186: 675-80, Dec 77 (Eng) DL/78MAY554

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HYPERGLYCEMIC HORMONE FROM THE EYESTALK OF THE SHRIMP CRANGON CRANGON. Skorkowski EF, Rykiert M, Lipinska B *Gen Comp Endocrinol* 33: 460-6, Dec 77 (Eng) DL/78MAY307

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LIPOPROTEIN LIPASE ACTIVITY IN RAT HEART MYOCYTES. Bagby GJ, Liu MS, Spitzer JA *Life Sci* 21: 467-73, 1 Aug 77 (Eng) \*DL/78MAY82

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PHYSIOLOGICAL ROLE OF GLUCOSE-PHOSPHORYLATING ENZYMES IN SACCCHAROMYCES CEREVISIAE. Lobo Z, Maitra PK *Arch Biochem Biophys* 182: 639-45, Aug 77 (Eng) \*DL/78MAY174

CROSSES, GENETIC; ENZYME ACTIVATION (drug effects); FRUCTOSE (metabolism); GENES; GENOTYPE; GLUCOKINASE (metabolism); GLUCOSE (metabolism); GLYCEROPHOSPHATES (pharmacodynamics); HAPLOIDY; HEXOKINASE (isolation & purification, metabolism); KINETICS; MUTATION; SACCCHAROMYCES CEREVISIAE (enzymology); SPECIES SPECIFICITY.

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ABNORMAL HEMORHEOLOGY IN DIABETES MELLITUS. Barnes A, Locke P, Dormandy J, Dormandy T *Bibl Anat* 428-9, 1977 (Eng) DL/78MAY575

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SPLANCHNIC BLOOD FLOW, O<sub>2</sub> CONSUMPTION, REMOVAL OF LACTATE, AND OUTPUT OF GLUCOSE IN HIGHLANDERS. Capderou A, Polianski J, Mensch-Dechene J, Drouet L, Antezana G, Zelter M, Lockhart A *J Appl Physiol* 43: 204-10, Aug 77 (Eng) \*DL/78MAY58

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AGING; CYSTIC FIBROSIS (familial & genetic); DIABETES MELLITUS (etiology); ENVIRONMENTAL POLLUTANTS (adverse effects); HUMAN; PANCREAS (abnormalities); PANCREATIC DISEASES (chemically induced, complications, prevention & control); PANCREATIC NEOPLASMS (chemically induced); PANCREATITIS (chemically induced).

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ANIMAL; ENZYME ACTIVATION; GLUCAGON (pharmacodynamics); INSULIN (pharmacodynamics); KINETICS; LIVER (enzymology); MALE; RATS; SUBCELLULAR FRACTIONS (enzymology); 3,5-CYCLOC AMP PHOSPHODIESTERASE (antagonists & inhibitors, isolation & purification, metabolism).

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ACTION OF BENZYLCLANE-HYDROGEN-FUMARATE ON THE CARBOHYDRATE METABOLISM OF BOVINE LENS HOMOGENATES. Hockwin O, Korte I, Loth C, Ohrlöff C, Fuss R, Schmidt G *Arzneim Forsch* 27: 1417-20, Jul 77 (Eng) \*DL/78MAY203

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ACID PHOSPHATASE (blood, genetics); BLOOD GROUPS; CHILD; CHILD, PRESCHOOL; DIABETES MELLITUS, JUVENILE (familial & genetic); ERYTHROCYTES (enzymology); FEMALE; GENE FREQUENCY; HUMAN; INFANT; MALE; PHENOTYPE; POLYMORPHISM (GENETICS); SEX FACTORS.

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[SOMATOTROPIC FUNCTION OF THE HYPOPHYSIS IN ENDOCRINE DISEASES] Slavnov VN, Epshtein EV, Luchitskii EV, Malinkovich VD, Markov VV *Probl Endokrinol (Mosk)* 23: 29-35, Nov-Dec 77 (Rus) DL/78MAY416

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DRUG HYPERSENSITIVITY; DRUG INTERACTIONS; HUMAN; HYPOGLYCEMIA (chemically induced); INSULIN ANTIBODIES; INSULIN (adverse effects); VISION DISORDERS (chemically induced).

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ADOLESCENCE; ADULT; ALANINE (blood); ALBUTEROL (administration & dosage, pharmacodynamics); BLOOD SUGAR (analysis); C-PEPTIDE (blood); CARBOHYDRATES (metabolism); DRUG EVALUATION; FATTY ACIDS, NONESTERIFIED (blood); FEMALE; GLYCERIN (blood); HEART RATE (drug effects); HUMAN; HYDROXYBUTYRATES (blood); INJECTIONS, INTRAVENOUS; INSULIN (blood); LACTATES (blood); LIPIDS (metabolism); PREGNANCY, THIRD; PREGNANCY.

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[INDICATIONS, TECHNIQUE AND RESULTS OF ANTERIOR VITRECTOMY (AUTHORS TRANSL)] Luntz MH *Klin Monatsbl Augenheilkd* 170: 855-62, Jun 77 (Ger) \*DL/78MAY74

ENGLISH ABSTRACT; EYE DISEASES (surgery); FOLLOW-UP STUDIES; HUMAN; IRITIS (etiology); METHODS; POSTOPERATIVE COMPLICATIONS (poisoning); PROLAPSE; TIME FACTORS; VITREOUS BODY (surgery).

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ADULT; AVIATION MEDICINE; BLOOD SUGAR (metabolism); HUMAN; HYDROCARBONS (metabolism); MALE; USSR.

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ADOLESCENCE; CALORIC INTAKE; CHILD; CHILD, PRESCHOOL; DIET, REDUCING; DIETARY FATS (administration & dosage); DIETARY PROTEINS (administration & dosage); HUMAN; OBESITY (diet therapy).

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BLOOD SUGAR (metabolism); FRUCTOSE (blood); HEXOSES (metabolism); HUMAN; INSULIN (blood); MALE; SORBITOL (metabolism); STRUCTURE-ACTIVITY RELATIONSHIP; SUCROSE (metabolism).

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ANIMAL; BLOOD SUGAR (analysis); BRAIN (metabolism); CORTICOSTERONE (blood); DIABETES MELLITUS, EXPERIMENTAL (chemically induced, metabolism); DOPAMINE (metabolism); FEMALE; HYDROXYINDOLEACETIC ACID (metabolism); HYPOGLYCEMIA (metabolism); INSULIN (pharmacodynamics); NOREPINEPHRINE (metabolism); RATS; SEROTONIN (metabolism); STRESS (metabolism); TRYPTOPHAN (metabolism); U.S. GOVT SUPPORTED, NON-N.I.H. ).

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ADRENERGIC BETA RECEPTOR BLOCKADERS (therapeutic use); ANIMAL; ARRHYTHMIA (drug therapy); DOGS; DRUG THERAPY, COMBINATION; GLUCAGON (therapeutic use).

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CELL LINE; CORTICOTROPIN (analysis, biosynthesis, immunology); ENDORPHINS (analysis, biosynthesis, immunology); IMMUNOLOGIC TECHNIQUES; MOLECULAR WEIGHT; PEPTIDES (analysis, biosynthesis); PITUITARY GLAND (metabolism); PROTEIN PRECURSORS (analysis, metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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ADULT; AUTOANTIBODIES (analysis); DIABETES MELLITUS (immunology); FEMALE; HUMAN; INDIA; MALE; ORGAN SPECIFICITY.

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ANIMAL; BODY WEIGHT; EATING (drug effects); HORMONES (pharmacodynamics, physiology); MICE; MICE, OBESE; OBESITY (physiopathology); PANCREAS (physiology, physiopathology); PEPTIDES (pharmacodynamics, physiology).

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[AUTOTRANSPLANTATION OF A PANCREAS SEGMENT IN THE DOG] Bartos V, Kolc J, Nozickova M, Matejkova M, Malek P *Rozhl Chir* 56: 340-3, May 77 (Cze) \*DL/78MAY106

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[SOMATOTROPIC FUNCTION OF THE HYPOPHYSIS IN ENDOCRINE DISEASES] Slavnov VN, Epshtein EV, Luchitskii EV, Malinkovich VD, Markov VV *Probl Endokrinol (Mosk)* 23: 29-35, Nov-Dec 77 (Rus) DL/78MAY416

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BICARBONATES (therapeutic use); CHILD; DIABETES MELLITUS (complications, etiology, metabolism, therapy); DIABETES MELLITUS, JUVENILE; DIABETIC ANGIOPATHIES; HISTOCOMPATIBILITY ANTIGENS; HUMAN; HYPERGLYCEMIA (etiology); INSULIN (therapeutic use); OBESITY (complications); PANCREAS (transplantation); REVIEW; TRACE ELEMENTS (physiology); TRANSPLANTATION, ALLOGENEIC (transplantation).

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CYCLIC GMP-DEPENDENT AND CYCLIC AMP-DEPENDENT PROTEIN KINASES, PROTEIN KINASE MODULATORS AND PHOSPHODIESTERASES IN ARTERIES AND VEINS OF DOGS. DISTRIBUTION AND EFFECTS OF ARTERIOVENOUS FISTULA AND ARTERIAL OCCLUSION. Kuo JF, Malveaux EJ, Patrick JG, Davis CW, Kuo WN, Pruitt AW *Biochim Biophys Acta* 497: 785-96, 26 May 77 (Eng) \*DL/78MAY5

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ANIMAL; CELL MEMBRANE (analysis); DIFFUSION; ENERGY TRANSFER; HUMAN; MEMBRANE POTENTIALS; MEMBRANES (anatomy & histology, analysis, metabolism, physiology); MEMBRANES, ARTIFICIAL; REVIEW; ROTATION; SPECTROMETRY, FLUORESCENCE; VISCOSITY.

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EFFECTS OF L-DOPA, GPA 1734 AND OTHER AGENTS ON BASEMENT MEMBRANE BIOSYNTHESIS. Maragoudakis ME, Kalinsky HJ, Wasvary J *J Pharmacol Exp Ther* 204: 372-83, Feb 78 (Eng) DL/78MAY342

ANIMAL; BASEMENT MEMBRANE (drug effects, embryology, metabolism); BENZOQUINOLIZINE (analogs & derivatives, pharmacodynamics); COLLAGEN (biosynthesis); DIABETES MELLITUS (metabolism); FEMALE; HORMONES (pharmacodynamics); IN VITRO; LEVODOPA (pharmacodynamics); MICROTUBULES (drug effects); PREGNANCY; PROLINE HYDROXYLASE (antagonists & inhibitors); PROSTAGLANDINS (pharmacodynamics); QUINOLIZINES (pharmacodynamics); RATS; SKIN (enzymology).

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ELEVATED BETA-THROMBOGLOBULIN LEVELS AND CIRCULATING PLATELET AGGREGATES IN DIABETIC MICROANGIOPATHY. Preston FE, Ward JD, Marcola BH, Porter NR, Timperley WR, O'Malley BC *Lancet* 1: 238-40, 4 Feb 78 (Eng) DL/78MAY373

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INVESTIGATION OF THE LIVER GLYCOGEN LEVEL IN RATS TREATED WITH ANTICEN-CEPTIVES. Marcell E, Csak S *Arzneim Forsch* 27: 1185-8, 1977 (Eng) \*DL/78MAY201

ANIMAL; CONTRACEPTIVES, ORAL (pharmacodynamics); CONTRACEPTIVES, ORAL, HORMONAL (pharmacodynamics); ETHINYL ESTRADIOL (pharmacodynamics); FEMALE; LIVER GLYCOGEN (metabolism); MESTRANOL (pharmacodynamics); NORETHYNODREL (pharmacodynamics); RATS.

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[STANDARDIZATION OF THE ANALYSIS OF CHOLESTEROL AND GLUCOSE ACCORDING TO THE INTERNATIONAL PROGRAM 1. DESCRIPTION OF THE METHODS AND VARIOUS ASPECTS OF STANDARDIZATION] Toleicis AI, Glazunov IS, Margiavichene LE *Ter Arkh* 49: 31-3, 1977 (Rus) \*DL/78MAY108

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[EFFECT OF HEPARINOLIDS ON THE BLOOD SUGAR LEVEL AND BLOOD LIPIDS IN DIABETES MELLITUS] Markoski S *Vutr Boles* 16: 52-8, 1977 (Bul) DL/78MAY488

ADOLESCENCE; ADULT; AGED; BLOOD SUGAR (analysis); CHONDROITIN (therapeutic use); CLINICAL RESEARCH; COMPARATIVE STUDY; DIABETES MELLITUS (blood, drug therapy); DRUG COMBINATIONS; DRUG EVALUATION; ENGLISH ABSTRACT; FEMALE; HEPARIN (blood, therapeutic use); HEPARINOID (therapeutic use); HUMAN; LIPIDS (blood); MALE; MIDDLE AGE; PENTOSAN SULFURIC POLYESTER (therapeutic use); PLACEBOS.

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[SOMATOTROPIC FUNCTION OF THE HYPOPHYSIS IN ENDOCRINE DISEASES] Slavnov VN, Epshtein EV, Luchitskii EV, Malinkovich VD, Markov VV *Probl Endokrinol (Mosk)* 23: 29-35, Nov-Dec 77 (Rus) DL/78MAY416

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**ALCOHOL-INDUCED HYPOGLYCAEMIA** [LETTER] Marks V *Br Med J* 1: 238, 28 Jan 78 (Eng) DL/78MAY231  
**ALCOHOL, ETHYL** (adverse effects); **HUMAN**; **HYDROCORTISONE** (secretion); **HYPOGLYCAEMIA** (chemically induced); **SOMATOTROPIN** (secretion).

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**AN IMPROVED TECHNIQUE FOR THE RAPID CONTINUOUS MEASUREMENT OF WHOLE BLOOD GLUCOSE, SUITABLE FOR CLINICAL APPLICATION IN AN ARTIFICIAL ENDOCRINE PANCREAS.** Albisser AM, Leibel BS, Johnson W, Denoga A, Botz CK, Marliss EB *Med Prog Technol* 5: 141-8, 15 Dec 77 (Eng) DL/78MAY390

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**AN ACCURATE DETERMINATION OF HUMAN GROWTH HORMONE CONTENT IN DIFFERENT PITUITARY EXTRACTS, USING A RADIOIMMUNOASSAY WITH POLYACRYLAMIDE GEL ELECTROPHORESIS AS A BOUND-FREE SEPARATION SYSTEM.** Bartolini P, Marques de Assis L, Schwarz I, Pieroni RR *Clin Chim Acta* 79: 223-36, 15 Aug 77 (Eng) \*DL/78MAY16

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**MINOXIDIL IN REFRACTORY HYPERTENSION: BENEFITS, RISKS.** Marquez-Julio A, From GL, Uldall PR *Proc Eur Dial Transplant Assoc* 14: 501-8, 1977 (Eng) DL/78MAY423  
**ADULT; AGED; DIURETICS** (therapeutic use); **FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; HYPERTENSION, RENAL** (drug therapy); **MALE; MIDDLE AGE; MINOXIDIL** (adverse effects, therapeutic use); **PERICARDIAL EFFUSION** (chemically induced); **PROPRANOLOL** (therapeutic use); **PYRIMIDINES** (therapeutic use).

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**EFFECTS OF NALOXONE, MORPHINE AND METHIONINE ENKEPHALIN ON SERUM PROLACTIN, LUTEINIZING HORMONE, FOLLICLE STIMULATING HORMONE, THYROID STIMULATING HORMONE AND GROWTH HORMONE.** Bruni JF, Van Vugt D, Marshall S, Meites J *Life Sci* 21: 461-6, 1 Aug 77 (Eng) \*DL/78MAY81

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**[IMMUNO-REACTIVE SOMATOSTATIN IN ACETIC EXTRACTS OF DUODENAL, ANTRAL AND FUNDIC BIOPSIES (AUTHORS TRANSL.)]** Chayvalle JA, Moulinier B, Martin A, Lambert R *Ann Endocrinol (Paris)* 38: 147-8, Mar-Apr 77 (Fre) \*DL/78MAY158

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**NEUROENDOCRINE ORGANIZATION OF GROWTH HORMONE REGULATION.** Martin JB, Brazeau P, Tannenbaum GS, Willoughby JO, Epelbaum J, Terry LC, Durand D *Res Publ Assoc Res Nerv Ment* 56: 329-57, 1978 (Eng) DL/78MAY439

**ANIMAL; CIRCADIAN RHYTHM; DOPAMINE** (physiology); **ENKEPHALINS** (physiology); **GLUCAGON** (physiology); **HUMAN**; **HYPOTHALAMUS** (physiology); **HYPOTHALAMUS, MEDIAL** (physiology); **LH-FSH RELEASING HORMONE** (physiology); **NEUROHUMORS** (physiology); **NEUROTENSIN** (physiology); **NOREPINEPHRINE** (physiology); **PREOPTIC AREA** (physiology); **SEROTONIN** (physiology); **SOMATOTROPIN RELEASE**

**INHIBITING HORMONE** (physiology); **SOMATOTROPIN RELEASING HORMONE** (physiology); **SOMATOTROPIN** (secretion); **SUBSTANCE P** (physiology); **THYROTROPIN RELEASING HORMONE** (physiology); **VASOPRESSIN** (physiology).

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**[EXPERIMENTAL COMPARATIVE CUTANEOUS WOUND HEALING IN SIALOADENECTOMIZED, DIABETIC AND DEXAMETHASONE 21-PHOSPHATE TREATED RATS. I. MORPHOLOGIC STUDY]** Martinelli C, Matheus G, Melhado RM, Arcieri RM *Rev Fac Odontol Aracatuba* 3: 233-43, 1974 (Por) DL/78MAY438

**ADRENAL GLANDS** (physiology); **ADRENALECTOMY; ANIMAL; COMPARATIVE STUDY; DEXAMETHASONE** (pharmacodynamics); **DIABETES MELLITUS, EXPERIMENTAL** (physiopathology); **ENGLISH ABSTRACT; GRANULATION TISSUE** (anatomy & histology, physiology); **RATS; SALIVARY GLANDS** (physiology, surgery); **SKIN** (anatomy & histology, physiology); **WOUND HEALING.**

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**[ENDOCRINE AND METABOLIC ASPECTS OF MYOTONIC DYSTROPHY]** Vaccario ML, Tonali P, Scopetta C, Barbarino A, Martino F, Troncone L *Riv Neurol* 47: 616-23, Nov-Dec 77 (Ita) DL/78MAY443

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**ACHILLES TENDON** (physiopathology); **DIET, REDUCING; ENERGY METABOLISM; FEMALE; HUMAN; INSULIN** (blood); **MALE; MUSCLES** (enzymology); **OBESITY** (familial & genetic, metabolism); **REFLEX, TENDON; THYROID FUNCTION TESTS.**

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**[AUTOTRANSPLANTATION OF A PANCREAS SEGMENT IN THE DOG]** Bartos V, Kolc J, Nozickova M, Matejkova M, Malek P *Rozhl Chir* 56: 340-3, May 77 (Cze) \*DL/78MAY106

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**[TOPICAL DIAGNOSIS OF NESIDIOMA BY ESTIMATING INSULIN WITHDRAWN AT DIFFERENT LEVELS (AUTHORS TRANSL.)]** Renker B, Kandrac M, Matejcek E, Grekov P *Cas Lek Cesk* 116: 1470-2, 25 Nov 77 (Slo) DL/78MAY241

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**HYPERGLUCAGONAEMIA AND RENAL FAILURE.** Matesanz R, Casado S, Valverde I, Hernandez L *Proc Eur Dial Transplant Assoc* 14: 571-3, 1977 (Eng) DL/78MAY425

**ANIMAL; DOGS; GLUCAGON** (blood, metabolism); **HEMODIALYSIS; HUMAN; KIDNEY FAILURE, CHRONIC** (blood, therapy); **KIDNEY** (metabolism).

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**[EXPERIMENTAL COMPARATIVE CUTANEOUS WOUND HEALING IN SIALOADENECTOMIZED, DIABETIC AND DEXAMETHASONE 21-PHOSPHATE TREATED RATS. I. MORPHOLOGIC STUDY]** Martinelli C, Matheus G, Melhado RM, Arcieri RM *Rev Fac Odontol Aracatuba* 3: 233-43, 1974 (Por) DL/78MAY438

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**PHARMACOLOGICAL STUDIES OF O-CHLORO-ALPHA-(TERT-BUTYLAMINO)METHYL-BENZYLALCOHOL HYDROCHLORIDE (C-78), A NEW BRONCHODILATOR. III. ACTIONS ON THE NERVOUS SYSTEMS AND MISCELLANEOUS ORGANS.** Uesaka I, Kubo S, Matsubara I, Kase Y *Arzneim Forsch* 27: 1439-45, Jul 77 (Eng) \*DL/78MAY204

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**ABNORMAL ELECTROPHORETIC PATTERN OF ALBUMIN IN DIABETIC SERA.** Kawaguchi T, Tsuchida T, Matsushita H *Clin Chim Acta* 83: 7-12, 1 Feb 78 (Eng) DL/78MAY250

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**CHANGES OF PLASMA CONCENTRATION AND ELIMINATION OF VARIOUS HORMONES BY HAEMOFILTRATION.** Kramer P, Matthaei D, Arnold R, Ebert R, Kobberling D, McIntosh C, Schwinn E, Scheler F, Ludwig H, Reichel J, Spittella G *Proc Eur Dial Transplant Assoc* 14: 144-50, 1977 (Eng) DL/78MAY422

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**BLOOD SUGAR** (metabolism); **DIALYSIS; GASTRIC INHIBITORY POLYPEPTIDE** (blood); **GASTROINTESTINAL HORMONES** (blood); **GLUCOSE TOLERANCE TEST; HEMODIALYSIS; HUMAN; INSULIN** (blood); **UREMIA** (blood, physiopathology, therapy).

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**[REGRESSION OF XANTHOMAS IN ENDOGENOUS HYPERTRIGLYCERIDEMIA UNDER LOW CARBOHYDRATE DIET]** Meinhof W, Matzkies F *Hautarzt* 28: 648-52, Dec 77 (Ger) DL/78MAY320

**[MALTOSE AS A SUBSTRATE FOR INDUCING OSMOTIC DIURESIS (AUTHORS TRANSL.)]** Berg G, Matzkies F, Kellner R *Arzneim Forsch* 27: 2174-6, 1977 (Ger) DL/78MAY584

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**[PROLACTIN SECRETION AND SYNTHESIS BY HUMAN SOMATOTROPIN ADENOMAS: IN VITRO EFFECT OF SOMATOSTATIN (SRIF) (AUTHORS TRANSL.)]** Peillon F, Cesselin F, Garnier PE, Brandi AM, Donnadiu M, Mauborgne A, LHermitte M *Ann Endocrinol (Paris)* 38: 165-6, Mar-Apr 77 (Fre) \*DL/78MAY159

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**DIABETIC GLOMERULOPATHY FOLLOWING UNILATERAL NEPHRECTOMY IN THE RAT.** Steffes MW, Brown DM, Mauer SM *Diabetes* 27: 35-41, Jan 78 (Eng) DL/78MAY298

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**[IMMEDIATE AND LONG TERM PROGNOSIS OF RECENT MYOCARDIAL INFARCTION]** Sellier P, Leger P, Diebold B, Hoffmann J, Guerinon J, Ourbak P, Maurice P *Arch Mal Coeur* 70: 115-62, Nov 77 (Fre) DL/78MAY559

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ADIPOSE TISSUE (drug effects, metabolism); ANIMAL; AVIDIN; BIOTIN (analogs & derivatives); CHROMATOGRAPHY, DEAE-CELLULOSE; ELECTROPHORESIS, DISC; GLUCOSE (metabolism); INSULIN (analogs & derivatives, isolation & purification, pharmacodynamics); ISOELECTRIC FOCUSING; MALE; OVALBUMIN (analogs & derivatives); RATS; U.S. GOVT SUPPORTED, N.I.H. )

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ACUTE EFFECTS OF INSULIN ON GLYCEROL PHOSPHATE ACYL TRANSFERASE ACTIVITY, KETOGENESIS AND SERUM FREE FATTY ACID CONCENTRATION IN PERFUSED RAT LIVER. Bates EJ, Topping DL, Sooranna SP, Saggerson D, Mayes PA *FEBS Lett* 84: 225-8, 15 Dec 77 (Eng) DL/78MAY275

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[BLOOD LEVEL OF HYPERGLYCEMIA AND IMMUNOREACTIVE INSULIN IN BURN SHOCK] Shurygin DA, Mazurov VI, Fedorov IuP *Voen Med Zh* 36-8, Dec 77 (Rus) DL/78MAY481

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AUTOANALYSIS; BLOOD SUGAR (analysis); CRITICAL CARE; EMERGENCY MEDICINE; HUMAN; INDICATORS AND REAGENTS; INTENSIVE CARE UNITS; REAGENT STRIPS.

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ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ADENOSINE TRIPHOSPHATE (metabolism); ANIMAL; AZO COMPOUNDS (pharmacodynamics); CATTLE; DIAMIDE (pharmacodynamics); DITHIOTHREITOL (pharmacodynamics); ENZYME ACTIVATION (drug effects); GLUTATHIONE (pharmacodynamics); HISTONE KINASE (antagonists & inhibitors); HISTONES (metabolism); KINETICS; MERCAPTOETHANOL (pharmacodynamics); PHOSVITIN (metabolism); PROTEIN KINASE (antagonists & inhibitors); THYROID GLAND (enzymology).

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THE RESPONSES OF GUT ENDOCRINE CELLS TO PHYSIOLOGICAL STIMULI: A QUANTITATIVE IMMUNOCYTOCHEMICAL STUDY. Pearce AG, Polak JM, McCrossan M *Mater Med Pol* 9: 95-7, Apr-Jun 77 (Eng) \*DL/78MAY80

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BIOLOGICAL EVALUATION OF THE THIRD PANCREATIC HORMONE (APP: HEPATOCYTE AND ADIPOCYTE EFFECTS. McCumbee WD, Hazelwood RL *Gen Comp Endocrinol* 33: 518-25, Dec 77 (Eng) DL/78MAY308  
ADENOSINE CYCLIC 3,5-MONOPHOSPHATE (metabolism); ADIPOSE TISSUE (drug effects, metabolism); ANIMAL; BINDING, COMPETITIVE; CHICKENS; FEMALE; GLUCAGON (pharmacodynamics); GLYCERIN (metabolism); IN VITRO; IODINE RADIOISOTOPES; LIPIDS (metabolism); LIVER (drug effects, metabolism); MALE; PANCREATIC HORMONES (metabolism, pharmacodynamics); PEPTIDES (metabolism, pharmacodynamics); U.S. GOVT SUPPORTED, NON-N.I.H. )

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EFFECT OF HEPARIN-INDUCED FREE FATTY ACID ELEVATION ON MYOCARDIAL OXYGEN CONSUMPTION IN MAN. Rogers WJ, McDaniel HG, Moraski RE, Rackley CE, Russell RO Jr *Am J Cardiol* 40: 365-72, Sep 77 (Eng) \*DL/78MAY146

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INTRAVENOUS DIAZOXIDE THERAPY IN HYPERTENSIVE CRISIS. McDonald WJ, Smith G, Woods JW, Perry HM, Danielson BD *Am J Cardiol* 40: 409-15, Sep 77 (Eng) \*DL/78MAY147

ADULT; AGED; BLOOD PRESSURE; BLOOD SUGAR (metabolism); BLOOD UREA NITROGEN; CLINICAL RESEARCH; CREATININE (blood); DIAZOXIDE (administration & dosage, therapeutic use); DRUG EVALUATION; ELECTROCARDIOGRAPHY (economics); FEMALE; FUROSEMIDE (therapeutic use); HEART RATE; HUMAN; HYPERTENSION (blood, drug therapy, physiopathology); INJECTIONS, INTRAVENOUS; MALE; MIDDLE AGE.

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CHANGES OF PLASMA CONCENTRATION AND ELIMINATION OF VARIOUS HORMONES BY HAEMOFILTRATION. Kramer P, Matthaedi D, Arnold R, Ebert R, Kobberling D, McIntosh C, Schwinn E, Scheler F, Ludwig H, Reichel J, Spittella G *Proc Eur Dial Transplant Assoc* 14: 144-50, 1977 (Eng) DL/78MAY422

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CHARACTERISTICS OF THYROTROPIN BINDING TO BOVINE THYROID PLASMA MEMBRANES AND THE INFLUENCE OF HUMAN IGG. Sato A, Zakarija M, McKenzie JM *Endocr Res Commun* 4: 95-113, 1977 (Eng) \*DL/78MAY24

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BIOLOGICAL TRANSPORT, ACTIVE; CALCIUM (pharmacodynamics); CARBOHYDRATES (metabolism); HUMAN; KINETICS; MAGNESIUM (pharmacodynamics); MOUTH MUCOSA (drug effects, metabolism); XYLOSE (metabolism).

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CAN GENETICALLY TRANSMITTED OBESITY BE ASCRIBED TO AN ADIPOSE TISSUE DEFECT? Meade CJ, Ashwell M, Medawar PB, Sowter C *Proc Nutr Soc* 36: 114a, Dec 77 (Eng) DL/78MAY427  
ADIPOSE TISSUE (pathology, transplantation); ANIMAL; CELL NUMBER; DIABETES MELLITUS, EXPERIMENTAL (pathology); HAMSTERS; MICE; MICE, OBESE;

MUTATION; OBESITY (familial & genetic, pathology); TRANSPLANTATION, HOMOLOGOUS (transplantation).

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CAN GENETICALLY TRANSMITTED OBESITY BE ASCRIBED TO AN ADIPOSE TISSUE DEFECT? Meade CJ, Ashwell M, Medawar PB, Sowter C *Proc Nutr Soc* 36: 114a, Dec 77 (Eng) DL/78MAY427

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ANTEPARTUM GLUCOCORTICOID TREATMENT: THE EFFECT OF PREDNISOLONE ON UMBILICAL BLOOD GLUCOSE, PLASMA FREE FATTY ACIDS AND INDIVIDUAL FREE AMINO ACID LEVELS. Soltész G, Horvath I, Mehes K, Mestyan J *Acta Paediatr Acad Sci Hung* 17: 297-301, 1976 (Eng) \*DL/78MAY133

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[LACTOSE IN THE DIABETIC DIET. METABOLIC STUDIES AFTER ORAL ADMINISTRATION OF LACTOSE IN METABOLICALLY HEALTHY PERSONS AND DIABETICS] Bachmann W, Haslbeck M, Wittmann P, Mehnert H *Ther Gw* 116: 2265-89, Dec 77 (Ger) DL/78MAY469

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PROLACTIN, THE LIPOREGULATORY HORMONE. Meier AH *Adv Exp Med Biol* 80: 153-71, 1977 (Eng) [30 ref.] \*DL/78MAY138  
ADIPOSE TISSUE (metabolism); ADRENAL CORTEX HORMONES (blood); AGE FACTORS; ANIMAL; CALORIC INTAKE; CIRCADIAN RHYTHM; HIBERNATION; LIGHT; PROLACTIN (physiology); REVIEW; SEASONS; THYROID (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H. ); WATER-ELECTROLYTE BALANCE.

## Meinhof W

[REGRESSION OF XANTHOMAS IN ENDOGENOUS HYPERTRIGLYCERIDEMIA UNDER LOW CARBOHYDRATE DIET] Meinhof W, Matzkies F *Hautarzt* 28: 648-52, Dec 77 (Ger) DL/78MAY320  
ADULT; CASE REPORT; CHOLESTEROL (blood); DIET, REDUCING; DIETARY CARBOHYDRATES (administration & dosage); ENGLISH ABSTRACT; HUMAN; HYPERLIPIDEMIA (blood, complications, diet therapy); MALE; OBESITY IN DIABETES (complications); TRIGLYCERIDES (blood); XANTHOMA, JUVENILE (blood, complications, diet therapy).

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ADAPTATION, PHYSIOLOGICAL; ADULT; AMINO ACIDS; FEMALE; GLUCOSE; HUMAN; INFECTION (metabolism); KETONE BODIES (metabolism); MALE; MODELS, BIOLOGICAL; NITROGEN (metabolism); PARENTERAL FEEDING; POSTOPERATIVE COMPLICATIONS (metabolism); PROTEINS (metabolism); STARVATION (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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[INVESTIGATION ON THE INFLUENCE OF HUMAN PLACENTAL LACTOGEN (HPL) ON GLUCOSE METABOLISM AND SERUM INSULIN LEVELS IN PREGNANT AND NON-PREGNANT WOMEN (AUTHORS TRANSL)] Feige A, Mitzkat HJ *Z Geburtshilfe Perinatol* 181: 413-20, Dec 77 (Ger) DL/78MAY497

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[TREATMENT WITH BROMOCRIPTINE OF ACROMEGALY ASSOCIATED WITH DIABETES; WITH SPECIAL REFERENCE TO ABILITY OF THE DRUG TO IMPROVE GLUCOSE METABOLISM DISORDER] Nonaka K, Shimizu T, Miyake S, Watanabe F, Kawano N *Hormon To Rinsho* 25: 1328-9, Dec 77 (Jpn) DL/78MAY252

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INSULIN-RELEASING ACTIVITY AND SUCCESSFUL TRANSPLANTATION OF PANCREATIC ISLETS PRESERVED BY TISSUE CULTURE. Nakagawa G, Yamasaki G, Kimura S, Kojima Y, Miyazaki I *Surgery* 83: 188-93, Feb 78 (Eng) DL/78MAY459

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ADULT; BLOOD SUGAR (metabolism); DOPAMINE BETA-HYDROXYLASE (blood); FASTING; FATTY ACIDS, NONESTERIFIED (blood); GLYCERIN (blood); HUMAN; MALE; TIME FACTORS.

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ABNORMALITIES (etiology); FEMALE; HUMAN; INFANT MORTALITY; INFANT, NEWBORN; INFANT, NEWBORN, DISEASES (etiology); PATIENT CARE PLANNING; PREGNANCY IN DIABETES (complications, therapy); PREGNANCY.

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ENDOCRINE DISORDERS. Montgomery DA, Harley JM *Clin Obstet Gynaecol* 4: 339-70, Aug 77 (Eng) [119 ref.] DL/78MAY254

ABORTION, THERAPEUTIC; ADRENAL GLAND DISEASES (therapy); DIABETES MELLITUS (therapy); ENDOCRINE DISEASES (therapy); FEMALE; FETUS; HUMAN; INFANT, NEWBORN; PARATHYROID DISEASES (therapy); PITUITARY DISEASES (therapy); PREGNANCY IN DIABETES; PREGNANCY COMPLICATIONS; PREGNANCY; PRENATAL CARE; REVIEW; THYROID DISEASES (therapy).

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EFFECT OF INSULIN ON KINETICS OF SUGAR TRANSPORT IN HEART MUSCLE. Cheung JY, Conover C, Regen DM, Whitfield CF, Morgan HE *Am J Physiol* 234: e70-8, Jan 78 (Eng) DL/78MAY539

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[SEVERAL INDICES OF GLYCOLYSIS FOLLOWING EXPOSURE TO MONOCHROMATIC RED LIGHT] Moroz AM *Vrach Delo* 133-5, Jul 77 (Rus) \*DL/78MAY110

ANIMAL; GLYCOLYSIS (radiation effects); LIGHT; RATS.

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ACIDOSIS, DIABETIC (diagnosis, physiopathology, therapy); DIABETIC COMA (therapy); HUMAN; INFUSIONS, PARENTERAL; INSULIN (therapeutic use); LACTATES (blood).

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[IMMUNO-REACTIVE SOMATOSTATIN IN ACETIC EXTRACTS OF DUODENAL, ANTRAL AND FUNDIC BIOPSIES (AUTHORS TRANSL)] Chayvialle JA, Moulinier B, Martin A, Lambert R *Ann Endocrinol (Paris)* 38: 147-8, Mar-Apr 77 (Fre) \*DL/78MAY158

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BREAST NEOPLASMS (physiopathology, secretion, surgery); FEMALE; HUMAN; INSULIN (secretion); MASTECTOMY.

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[STUDIES ON THE EFFECTS OF INTRAVENOUS ADMINISTRATION OF GLUCOSE, FRUCTOSE, INVERTOSE AND SORBITOL ON VARIOUS BLOOD CONSTITUENTS OF BLOOD PLASMA (MONOSACCHARIDES, INSULIN, LACTATE, PYRUVATE AND FREE FATTY ACIDS AS WELL AS GLUTAMATE-OXALACETATE TRANSAMINASE) IN THE HORSE] Kouider S, Kolb FE, Muller I, Pfuller C, Schneider J *Arch Exp Veterinaarmed* 31: 701-18, 1977 (Ger) DL/78MAY560

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[THE SIGNIFICANCE OF MATERNAL GLUCOSE TOLERANCE FOR THE FETUS IN THE PERINATAL PERIOD (PROCEEDINGS)] Mund-Hoym S, Hinckes HJ *Arch Gynaekol* 224: 139-40, 29 Jul 77 (Ger) DL/78MAY562

FEMALE; FETAL DISTRESS (etiology); FETAL HEART; HUMAN; INFANT, NEWBORN; LABOR; PREGNANCY IN DIABETES (complications); PREGNANCY.

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HLA ANTIGENS IN SARDINIAN PATIENTS WITH DIABETES MELLITUS. Contu L, Pugheddu A, Mura C, Gabbas A *Diabete Metab* 3: 263-7, Dec 77 (Eng) DL/78MAY290

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PURIFICATION OF XANTHURENIC ACID-INSULINE COMPLEX. Murakami E *Acta Vitaminol Enzymol (Milano)* 29: 240-2, 1975 (Eng) DL/78MAY528

CHEMISTRY; INSULIN (isolation & purification); MOLECULAR WEIGHT; PROTEIN BINDING; XANTHURENATES (isolation & purification).

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PHOSPHATE TRANSPORT BY ISOLATED RENAL AND INTESTINAL PLASMA MEMBRANES. Kinne R, Berner W, Hoffman N, Murer H *Adv Exp Med Biol* 81: 265-77, 1977 (Eng) \*DL/78MAY139

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EFFECT OF PROSTAGLANDINS ON ALPHA-AMINOISOBUTYRIC ACID UPTAKE IN CULTURED FIBROBLASTS. Murota S, Kawamura M *Biochem Biophys Res Commun* 76: 995-1001, 20 Jun 77 (Eng) \*DL/78MAY187

AMINOISOBUTYRIC ACID (metabolism); ARACHIDONIC ACIDS (pharmacodynamics); BIOLOGICAL TRANSPORT; FIBROBLASTS (drug effects, metabolism); KINETICS; PROSTAGLANDINS A (pharmacodynamics); PROSTAGLANDINS E (pharmacodynamics); PROSTAGLANDINS (pharmacodynamics); STRUCTURE-ACTIVITY RELATIONSHIP.

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IMMEDIATE HEART-RATE RESPONSE TO STANDING: SIMPLE TEST FOR AUTONOMIC NEUROPATHY IN DIABETES. Ewing DJ, Campbell IW, Murray A, Neilson JM, Clarke BF *Br Med J* 1: 145-7, 21 Jan 78 (Eng) DL/78MAY227

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EFFECT OF RESERPINE ON ADENOSINE UPTAKE AND METABOLISM, AND SUBCELLULAR TRANSPORT OF PLATELET ADENOSINE TRIPHOSPHATE IN WASHED RABBIT PLATELETS. Reimers HJ, Packham MA, Cazenave JP, Mustard JF *Biochem Pharmacol* 26: 1657-65, 15 Sep 77 (Eng) \*DL/78MAY199

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THYMUS-DEPENDENT REVERSIBILITY OF PHYSIOLOGICAL AND ISOPROTERENOL EVOKED AGE-RELATED PARAMETERS IN ATHYMIC (NUDE) AND OLD NORMAL MICE. Piantanelli L, Basso A, Muzzioli M, Fabris N *Mech Ageing Dev* 7: 171-82, Mar 78 (Eng) DL/78MAY363

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AMYLOIDOSIS IN AGEING OBESE-HYPERGLYCEMIC MICE AND THEIR LEAN LITTERMATES. A MORPHOLOGICAL STUDY. Naeser P, Westermarck P *Acta Pathol Microbiol Scand [A]* 85: 761-7, Nov 77 (Eng) DL/78MAY514

ADRENAL GLANDS (pathology); AGE FACTORS; AMYLOID (metabolism); AMYLOIDOSIS (complications, pathology); ANIMAL; HYPERGLYCEMIA (complications, pathology); KIDNEY GLOMERULUS (ultrastructure); KIDNEY (pathology); LIVER (pathology); MALE; MICE; OBESITY (complications, pathology); SPLEEN (pathology).

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INSULIN DEGRADATION. XXIII. DISTRIBUTION OF GLUTATHIONE-INSULIN TRANSHYDROGENASE IN ISOLATED RAT HEPATOCYTES AS STUDIED BY IMMUNOFERRITIN AND ELECTRON MICROSCOPY. Varandani PT, Raveed D, Nafz MA *Biochim Biophys Acta* 538: 343-53, 18 Jan 78 (Eng) DL/78MAY221

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[EFFECT OF BROMOCRIPTINE (CB-154) IN DIABETES ASSOCIATED WITH ACROMEGALY] Sakai Y, Nagasaka A, Makino H *Hormon To Rinsho* 25: 1323-6, Dec 77 (Jpn) DL/78MAY251

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[HEALTH EDUCATION FOR THE MANAGEMENT OF OBESITY: DATA FROM

THE PRELIMINARY SURVEY. I.] Nagayama S, Sugimura N, Yamashita T, Fujita S *Jpn J Public Health Nurse* 33: 480-2, Aug 77 (Jpn) \*DL/78MAY73

HEALTH EDUCATION; HUMAN; OBESITY (occurrence, prevention & control).

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[PREVENTION OF RESPIRATORY DISTRESS SYNDROME PRIOR TO DELIVERY USING STEROIDS] Nagy Gy, Kardos Z, Pothanka O, Lampe L *Zentralbl Gynaekol* 99: 610-7, 1977 (Ger) \*DL/78MAY131

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ADENOSINE TRIPHOSPHATASE (blood); BIOLOGICAL TRANSPORT, ACTIVE (drug effects); ENZYME ACTIVATION (drug effects); ERYTHROCYTE MEMBRANE (metabolism); ERYTHROCYTES (metabolism); HUMAN; KINETICS; MEMBRANE PROTEINS (blood); OSMOLAR CONCENTRATION; OUABAIN (pharmacodynamics); PHLORHIZIN (blood, pharmacodynamics); POTASSIUM (pharmacodynamics); RUBIDIUM (pharmacodynamics); SODIUM (pharmacodynamics).

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INSULIN-RELEASING ACTIVITY AND SUCCESSFUL TRANSPLANTATION OF PANCREATIC ISLETS PRESERVED BY TISSUE CULTURE. Nakagawara G, Yamasaki G, Kimura S, Kojima Y, Miyazaki I *Surgery* 83: 188-93, Feb 78 (Eng) DL/78MAY459

ANIMAL; DIABETES MELLITUS, EXPERIMENTAL (metabolism, therapy); GLUCAGON (pharmacodynamics); GLUCOSE (pharmacodynamics); INSULIN (secretion); ISLANDS OF LANGERHANS (secretion, transplantation); MALE; ORGAN PRESERVATION; PORTAL VEIN; RATS; TISSUE CULTURE; TOLBUTAMIDE (pharmacodynamics); TRANSPLANTATION, ALLOGENEIC (transplantation).

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ANIMAL; AROUSAL (physiology); AVOIDANCE LEARNING (physiology); BLOOD SUGAR (metabolism); DOPAMINE BETA-HYDROXYLASE (blood); MALE; MONKEYS; RENIN (blood); RHESUS MONKEYS; STRESS, PSYCHOLOGICAL (physiology); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

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EFFECT OF BROMOCRIPTINE ON THE SECRETION OF THYROTROPIC HORMONE (TSH), PROLACTIN (PR), HUMAN GROWTH HORMONE (HGH), THYROXINE (T4) AND TRIIODOTHYROXINE (T3) IN HYPOTHYROIDISM. Felt V, Nedvdkova J *Horm Metab Res* 9: 274-7, Jul 77 (Eng) \*DL/78MAY53

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ADULT; DIABETIC RETINOPATHY (physiopathology); HUMAN; INTRAOCULAR PRESSURE; MIDDLE AGE; RETINAL HEMORRHAGE (physiopathology).

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ANIMAL; ANTIBODY SPECIFICITY; CATTLE; DOGS; FEMALE; FREUND'S ADJUVANT; GOATS; GUINEA PIGS; INSULIN ANTIBODIES (biosynthesis); INSULIN (immunology); MALE; RABBITS; RATS; SHEEP (immunology); SWINE (immunology).

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BIOLOGICAL TRANSPORT; CELLS, CULTURED; FIBROBLASTS (drug effects, metabolism); HEXOSES (pharmacodynamics); HUMAN; HYDROLASES (metabolism); IDURONIDASE (immunology, metabolism); IMMUNE SERUMS (pharmacodynamics); KINETICS; LYSOSOMES (enzymology); MUCOLIPIDOSIS (metabolism).

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ACCLIMATIZATION; ANIMAL; BIOLOGICAL TRANSPORT, ACTIVE; BROWN FAT (metabolism); CARBONYL CYANIDE P-TRIFLUOROMETHOXY-PHENYLHYDRAZONE (pharmacodynamics); COLD; GUINEA PIGS; HAMSTERS; HYDROGEN-ION CONCENTRATION (physiology); KINETICS; MAGNESIUM (pharmacodynamics); MEMBRANE POTENTIALS; MEMBRANES (drug effects, metabolism); MITOCHONDRIA (drug effects, metabolism); OXYGEN CONSUMPTION (drug effects).

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BIOLOGICAL TRANSPORT, ACTIVE; BLOOD SUGAR (metabolism); ERYTHROCYTE MEMBRANE (metabolism); ERYTHROCYTES (metabolism); HUMAN; ISOMERISM; KINETICS; MEMBRANES, ARTIFICIAL; MODELS, BIOLOGICAL; STRUCTURE-ACTIVITY RELATIONSHIP.

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ADRENAL GLANDS (secretion); AGE FACTORS; ANIMAL; CORTICOTROPIN (secretion); ENDOCRINE GLANDS (embryology, growth & development, physiology); GONADOTROPINS, PITUITARY (secretion); HUMAN; HYPOTHALAMUS (secretion); ISLANDS OF LANGERHANS (secretion); PITUITARY GLAND (secretion); RATS; RECEPTORS, HORMONE (physiology); REVIEW; SEX HORMONES (secretion);

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ADULT; ANGIOGRAPHY; CALCULI (complications, radiography); DIABETES MELLITUS (complications); ENGLISH ABSTRACT; HUMAN; MALE; MIDDLE AGE; PANCREATIC DISEASES (complications, radiography).

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ACROMEGALY (complications, drug therapy); ADULT; CASE REPORT; DIABETES MELLITUS (drug therapy, etiology); FEMALE; HUMAN; MALE; MIDDLE AGE; 2-BROMOERGOCRYPTINE (therapeutic use).

[AGING AND ENDOCRINE PANCREAS (AUTHORS TRANSL)] Nonaka K, Tarui S *Nippon Naibunpi Gakkai Zasshi* 53: 1321-7, 20 Dec 77 (Jpn) DL/78MAY280

ADOLESCENCE; ADULT; AGE FACTORS; AGED; AGING; ANIMAL; CHILD; DIABETES MELLITUS (occurrence); ENGLISH ABSTRACT; GLUCAGON (blood); GLUCONEOGENESIS; GLUCOSE TOLERANCE TEST; GLYCOLYSIS; HEXOSAMINIDASES (blood); HUMAN; INSULIN (blood); ISLANDS OF LANGERHANS (secretion); LIVER (enzymology); MIDDLE AGE; PROGERIA (metabolism); RATS.

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ANIMAL; AORTA; ELECTRIC STIMULATION; ENERGY METABOLISM; ENGLISH ABSTRACT; GLUCOSEPHOSPHATE DEHYDROGENASE (metabolism); HEART (innervation); HEXOKINASE (metabolism); LACTATE DEHYDROGENASE (metabolism); LEVODOPA (pharmacodynamics); MALE; MYOCARDIUM (metabolism); NOREPINEPHRINE (deficiency); PENTOSE (metabolism); RABBITS; SYMPATHETIC NERVOUS SYSTEM.

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[PROBLEMS AND POSSIBILITIES OF PHOTOCOAGULATION (AUTHORS TRANSL)] Shimizu K, Noyori K, Sakaue E *Nippon Ganka Gakkai Zasshi* 81: 1666-91, 10 Oct 77 (Jpn) DL/78MAY525

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[AFFERENT DISCHARGES IN THE VEGAL AND SYMPATHETIC PATHWAYS OF THE STOMACH AFTER THE ADMINISTRATION OF DIGESTIVE TRACT HORMONES] Klimov PK, Nozdrachev AD, Chubarova NI *Fiziol Zh SSSR* 63: 1689-96, Dec 77 (Rus) DL/78MAY279

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[AUTOTRANSPLANTATION OF A PANCREAS SEGMENT IN THE DOG] Bartos V, Kolc J, Nozickova M, Matejckova M, Malek P *Rozhl Chir* 56: 340-3, May 77 (Cze) \*DL/78MAY106

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DIABETES MELLITUS (etiology, familial & genetic, physiopathology); ENDOCRINE DISEASES; GLUCAGON (secretion); HUMAN.

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[EFFECT OF HIGH-MOLECULAR URINE FRACTIONS OF HEALTHY PERSONS AND

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ANIMAL; AXOPLASMIC FLOW; BIOLOGICAL TRANSPORT; EXOCYTOSIS; GLUCOSE (metabolism); HYPOTHALAMO-HYPOPHYSAL SYSTEM (physiology); KINETICS; METHODS; NEURONS (physiology); NEUROPHYSINS (physiology); OXIDATIVE PHOSPHORYLATION; OXYTOCIN (physiology); PERIPHERAL NERVES (physiology); REVIEW; SCIATIC NERVE (physiology); SYNPACTIC VESICLES (physiology); VASOPRESSIN (physiology).

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ABNORMALITIES, DRUG-INDUCED; CYCLOPHOSPHAMIDE (adverse effects); DRUG THERAPY (adverse effects); EYE (abnormalities, drug effects); FEMALE; HUMAN; HYPOGLYCEMIC AGENTS (adverse effects); INFANT, NEWBORN; MUSTARD COMPOUNDS (adverse effects); PREGNANCY; RABBITS; RATS; VITAMIN A (adverse effects).

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ADIPOSE TISSUE (drug effects, metabolism); ANIMAL; BLOOD SUGAR (metabolism); CHROMIUM (deficiency, pharmacodynamics); FATTY ACIDS, NONESTERIFIED (metabolism); GLUCOSE TOLERANCE TEST; GLYCEROL KINASE (metabolism); LIPIDS (metabolism); MALE; RATS; U.S. GOVT SUPPORTED, N.I.H. ).

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EFFECTS OF ADRENALECTOMY AND THYROIDECTOMY ON IN VIVO ACTION OF GLUCAGON IN BROWN ADIPOSE TISSUE. Kuroshima A, Doi K, Ohno T *Nippon Seirigaku Zasshi* 39: 405-8, 1977 (Eng) DL/78MAY344

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ANIMAL; BLOOD SUGAR (metabolism); DRUG INTERACTIONS; EPINEPHRINE (pharmacodynamics); HYPERTHYROIDISM (blood); HYPOTHYROIDISM (blood); INSULIN (blood, secretion); ISOPROTERENOL (pharmacodynamics); MALE; PROPRANOLOL (pharmacodynamics); RATS; SYMPATHETIC NERVOUS SYSTEM (physiology); THYROID GLAND (physiology).

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ANIMAL; CARBOXYLIC ACIDS (pharmacodynamics); DOSE-RESPONSE RELATIONSHIP, DRUG ; GLUCOSE (pharmacodynamics); IN VITRO; INSULIN (secretion); ISLANDS OF LANGERHANS (drug effects, secretion); KINETICS; MALE; PUROMYCIN (pharmacodynamics); QUINOLINES (pharmacodynamics); RATS.

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MECHANISMS OF FASTING-INDUCED INCREASE IN INSULIN BINDING TO RAT ADIPOCYTES. Olefsky JM, Kobayashi M *J Clin Invest* 61: 329-38, Feb 78 (Eng) DL/78MAY329

ADIPOSE TISSUE (cytology, metabolism); ANIMAL; FASTING; HORMONES (pharmacodynamics); IN VITRO; INSULIN (metabolism); KINETICS; MALE; RATS; RECEPTORS, INSULIN (metabolism); U.S. GOVT SUPPORTED, N.I.H. ); U.S. GOVT SUPPORTED, NON-N.I.H. ).

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[DIABETIC DIET: WHOLESOME FOOD IN ACCURATELY ADJUSTED PORTIONS] Olesen E *Sygeplejersken* 70: 16-9, 30 Nov 77 (Dan) DL/78MAY461

DIABETIC DIET; HUMAN; NUTRITIONAL REQUIREMENTS.

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ANIMAL; CELL MEMBRANE PERMEABILITY; CELL MEMBRANE (ultrastructure); FREEZE FRACTURING; MICROSCOPY, ELECTRON.

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ANAPHYLAXIS (physiopathology); ANIMAL; CARRAGEENAN; DOSE-RESPONSE RELATIONSHIP, DRUG ; INFLAMMATION (chemically induced, prevention & control); INSULIN (administration & dosage, immunology); MALE; MICE.

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ADULT; ANESTHESIA, EPIDURAL (adverse effects); AUTONOMIC NERVOUS SYSTEM; CASE REPORT; DIABETIC NEUROPATHIES (complications, physiopathology); DIARRHEA (complications); FECAL INCONTINENCE (complications); FEMALE; HEART ARREST (etiology); HEART RATE; HUMAN; HYPOTENSION, ORTHOSTATIC (complications); IMPOTENCE (complications);



MALE; RESPIRATION; SWEATING, GUSTATORY (complications).

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### Preston FE

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**[STUDY OF THYROID FUNCTION AND GLYCEMIA IN KLINEFELTERS SYNDROME]** Milanov S, Protich M, Panaiotov D *Vutr Boles* 16: 61-4, 1977 (Bul) \*DL/78MAY111

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**AMINO ACID SEQUENCES AT THE TWO SITES ON GLYCOGEN SYNTHETASE PHOSPHORYLATED BY CYCLIC AMP-DEPENDENT PROTEIN KINASE AND THEIR DEPHOSPHORYLATION BY PROTEIN PHOSPHATASE-III.** Proud CG, Rylatt DB, Yeaman SJ, Cohen P *FEBS Lett* 80: 435-42, 15 Aug 77 (Eng) \*DL/78MAY44

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**CYCLIC GMP-DEPENDENT AND CYCLIC AMP-DEPENDENT PROTEIN KINASES, PROTEIN KINASE MODULATORS AND PHOSPHODIESTERASES IN ARTERIES AND VEINS OF DOGS. DISTRIBUTION AND EFFECTS OF ARTERIOVENOUS FISTULA AND ARTERIAL OCCLUSION.** Kuo JF, Malveaux EJ, Patrick JG, Davis CW, Kuo WN, Pruitt AW *Biochim Biophys Acta* 497: 785-96, 26 May 77 (Eng) \*DL/78MAY5

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**HLA ANTIGENS IN SARDINIAN PATIENTS WITH DIABETES MELLITUS.** Contu L, Puligheddu A, Mura C, Gabbas A *Diabete Metab* 3: 263-7, Dec 77 (Eng) DL/78MAY290

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**REDUCED ACTIVITY OF HEPATIC MICROSOMAL FATTY ACID CHAIN ELONGATION SYNTHESIS IN CLOFIBRATE-FED RATS.** Landriscina C, Ruggiero FM, Gnoni GV, Quagliariello E *Biochem Pharmacol* 26: 1401-4, 1 Aug 77 (Eng) \*DL/78MAY194

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**[PROBLEMS IN THE THERAPY OF OBESITY LOW CARBOHYDRATE, RELATIVELY FAT-RICH DIET: BIOCHEMICAL FINDINGS]** Schonborn J, Eysselein V, Rabast U, Kasper H *Verh Dtsch Ges Inn Med* 82 pt 2: 1364-72, 1976 (Ger) \*DL/78MAY116

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**ADRENALECTOMY; ANIMAL; CIRCADIAN RHYTHM; COMPARATIVE STUDY; CORTICOSTERONE (blood, pharmacodynamics); ETHER, ETHYL (pharmacodynamics); FEMALE; OVULATION; PROLACTIN (blood); PUBERTY; RATS; SEX MATURATION; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; VAGINA (physiology).**

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**FLUORIDATION AND MORTALITY—AN EPIDEMIOLOGIC STUDY OF PENNSYLVANIA COMMUNITIES.** Tokuhata GK, Digon E, Ramaswamy K *Public Health Rep* 93: 60-8, Jan-Feb 78 (Eng) DL/78MAY436

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**ADENOSINE TRIPHOSPHATASE (metabolism); BIOLOGICAL TRANSPORT, ACTIVE; CELL MEMBRANE (metabolism); ELECTROCHEMISTRY; ESCHERICHIA COLI (metabolism); HYDROGEN-ION CONCENTRATION (physiology); MEMBRANE POTENTIALS; RUBIDIUM (metabolism).**

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**ADULT; BASEMENT MEMBRANE (metabolism); BLOOD SUGAR (metabolism); CAPILLARIES (metabolism); DIABETES MELLITUS (blood); DIABETIC ANGIOPATHIES (blood, pathology, prevention & control); DIABETIC NEPHROPATHIES (blood, pathology); DIABETIC NEUROPATHIES (blood); DIABETIC RETINOPATHY (blood); GLUCAGON (blood); HEMOGLOBIN A**

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**ANIMAL; ENGLISH ABSTRACT; HALF-LIFE; HUMAN; INSULIN (administration & dosage, blood, metabolism, secretion); KIDNEY (metabolism); KINETICS; LIVER (metabolism); METABOLIC CLEARANCE RATE; REVIEW.**

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**ADENOSINE TRIPHOSPHATE (blood); ADENOSINE (blood); ANIMAL; BIOLOGICAL TRANSPORT (drug effects); BLOOD PLATELETS (drug effects, metabolism, ultrastructure); IN VITRO; MODELS, BIOLOGICAL; RABBITS; RESERPINE (pharmacodynamics); SUBCELLULAR FRACTIONS (metabolism); TIME FACTORS.**

**EFFECTS OF RESERPINE AND SEROTONIN ON ADENINE NUCLEOTIDE METABOLISM AND GLUCOSE OXIDATION OF WASHED RABBIT PLATELETS.** Reimers HJ, Kinlough-Rathbone RL, Packham MA, Mustard JF *Biochem Pharmacol* 26: 1667-70, 15 Sep 77 (Eng) \*DL/78MAY200

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**[DISORDERS OF CARBOHYDRATE METABOLISM IN SEVERE FIBROUS-INFLAMMATORY PANCREATIC CHANGES] Reinmuth J, Busch B *Z Gesamte Inn Med* 32: 634-6, 15 Nov 77 (Ger) DL/78MAY493**

**ADOLESCENCE; ADULT; AGED; BIOPSY (methods); DIABETES MELLITUS (diagnosis, etiology, pathology); ENGLISH ABSTRACT; FEMALE; GLUCOSE TOLERANCE TEST (methods); HUMAN; MALE; MIDDLE AGE; PANCREATITIS (complications, pathology); TIME FACTORS.**

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ADENYL CYCLASE (metabolism); ANIMAL; CELL MEMBRANE (enzymology); ENZYME ACTIVATION; FEMALE; GLUCAGON (pharmacodynamics); GUANYLYL IMIDODIPHOSPHATE (pharmacodynamics); LIVER (enzymology); RATS; TEMPERATURE; THERMODYNAMICS.

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**[TOPICAL DIAGNOSIS OF NESIDIOMA BY ESTIMATING INSULIN WITHDRAWN AT DIFFERENT LEVELS (AUTHORS TRANSL)]** Renker B, Kandrac M, Matejcek E, Grekov P *Cas Lek Cesk* 116: 1470-2, 25 Nov 77 (Slo) DL/78MAY241  
ADULT; CASE REPORT; ENGLISH ABSTRACT; FEMALE; HUMAN; INSULIN (analysis); ISLET CELL TUMOR (analysis, diagnosis); PANCREATIC NEOPLASMS (analysis, diagnosis).

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ADIPOSE TISSUE (drug effects, metabolism); ANIMAL; CELLS, CULTURED; DRUG RESISTANCE; FATTY ACIDS (biosynthesis); GLUCOSE (metabolism); INSULIN (pharmacodynamics); MALE; OBESITY (metabolism); PYRUVATES (metabolism); RATS; U.S. GOVT SUPPORTED, N.I.H. ).

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AUTOANALYSIS (instrumentation, methods); BLOOD SUGAR (analysis); CHLOROPHENOLS; COMPARATIVE STUDY; EVALUATION STUDIES; GLUCOSE OXIDASE; HUMAN; MICROCHEMISTRY.

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**GLYCOSYLATED HAEMOGLOBIN-A IN RENAL FAILURE [LETTER]** Stanton KG,

Davis R, Richmond J *Lancet* 1: 100, 14 Jan 78 (Eng) DL/78MAY368

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ANIMAL; DIABETES MELLITUS (therapy); ISLANDS OF LANGERHANS (transplantation); LIVER; MALE; RATS; TRANSPLANTATION, HOMOLOGOUS (transplantation).

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**IN VITRO STUDIES ON NORMAL, STIMULATED AND IMMUNOLOGICALLY ACTIVATED MOUSE MACROPHAGES. I. OXIDATION OF 1-14C GLUCOSE BY MACROPHAGES IN MONOLAYER CULTURES.** Riisgaard S, Bennedsen J, Rhodes JM *Acta Pathol Microbiol Scand [C]* 85C: 233-8, Aug 77 (Eng) \*DL/78MAY134

ANIMAL; BCG; GLUCOSE (metabolism); LISTERIA; MACROPHAGES (drug effects, immunology); MICE; MICE, INBRED CBA; MICE, INBRED C3H; MICE, INBRED C57BL; OXIDATION-REDUCTION; PEPTONES (pharmacodynamics); TYPHOID-PARATYPHOID VACCINES.

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**RISK FACTORS AND ANGIOGRAPHICALLY DETERMINED CORONARY OCCLUSION.** Anderson AJ, Barboriak JJ, Rimm AA *Am J Epidemiol* 107: 8-14, Jan 78 (Eng) DL/78MAY533

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**STIMULATION OF GLUCAGON OF IN VIVO PHOSPHORYLATION OF RAT HEPATIC PYRUVATE KINASE.** Riou JP, Claus TH, Pilikis SJ *J Biol Chem* 253: 656-9, 10 Feb 78 (Eng) DL/78MAY321

ANIMAL; GLUCAGON (pharmacodynamics); LIVER (drug effects, enzymology); MALE; PHOSPHOPROTEINS (biosynthesis); PYRUVATE KINASE (isolation & purification, metabolism); RATS; U.S. GOVT SUPPORTED, N.I.H. ).

#### Ritter RC

**FEEDING IN RESPONSE TO INSULIN BUT NOT TO 2-DEOXY-D-GLUCOSE IN THE HAMSTER.** Ritter RC, Balch OK *Am J Physiol* 234: e20-4, Jan 78 (Eng) DL/78MAY537  
ANIMAL; BLOOD SUGAR; COMPARATIVE STUDY; DEOXY SUGARS (pharmacodynamics); DEOXYGLUCOSE (pharmacodynamics); DOSE-RESPONSE RELATIONSHIP, DRUG ); DRINKING BEHAVIOR (drug effects); FEEDING BEHAVIOR (drug effects); FEMALE; HAMSTERS; INSULIN (pharmacodynamics); LIGHT; MALE; SODIUM CHLORIDE (pharmacodynamics); TIME FACTORS; U.S. GOVT SUPPORTED, NON-N.I.H. ).

#### Rivier C

**BETA-ENDORPHIN AND ADRENOCORTICOTROPIN ARE SELECTED CONCOMITANTLY BY THE PITUITARY GLAND.** Guillemain R, Vargo T, Rossier J, Minick S, Ling N, Rivier C, Vale W, Bloom F *Science* 197: 1367-9, 30 Sep 77 (Eng) \*DL/78MAY105

#### Rochelle RH

**POLYAMINE EFFECTS ON SUCCINATE-LINKED AND ALPHAKETOGLUTARATE-LINKED RAT LIVER MITOCHONDRIAL RESPIRATION.** Chaffee RR, Salganicoff L, Arine RM, Rochelle RH, Schultz EL *Biochem Biophys Res Commun* 77: 1009-16, 8 Aug 77 (Eng) \*DL/78MAY189

#### Roehrig A

**[PRE- AND POSTOPERATIVE INSULIN SECRETION IN WOMEN WITH BREAST CANCER (PROCEEDINGS)]** Muck BR, Hommel G, Roehrig A *Arch Gynaekol* 224: 294-5, 29 Jul 77 (Ger) DL/78MAY563

#### Rogers WJ

**EFFECT OF HEPARIN-INDUCED FREE FATTY ACID ELEVATION ON MYOCARDIAL OXYGEN CONSUMPTION IN MAN.** Rogers WJ, McDaniel HG, Moraski RE, Rackley CE, Russell RO Jr *Am J Cardiol* 40: 365-72, Sep 77 (Eng) \*DL/78MAY146

ADULT; AGED; CARBON DIOXIDE (blood); FATTY ACIDS, NONESTERIFIED (blood, pharmacodynamics); FEMALE; GLUCOSE (metabolism); GLYCERIN (blood); HEMODYNAMICS (drug effects); HEPARIN (pharmacodynamics); HUMAN; LACTATES (metabolism); MALE; MIDDLE AGE; MYOCARDIUM (metabolism); OXYGEN CONSUMPTION (drug effects); OXYGEN (blood); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H. ).

#### Roldan A

**EFFECT OF DIABETES ON GROWTH OF MOUSE LYMPHOMA P1798 [LETTER]** Roldan A, Stevens J, Hollander VP *Acta Physiol Lat Am* 26: 221-3, 1976 (Eng) DL/78MAY519  
ANIMAL; DIABETES MELLITUS (metabolism); HYDROCORTISONE (antagonists & inhibitors, metabolism); LYMPHOMA (metabolism); MICE; NEOPLASM TRANSPLANTATION; NEOPLASMS, EXPERIMENTAL (metabolism); U.S. GOVT SUPPORTED, N.I.H. ).

#### Rome LH

**THE TRANSPORT OF LYSOSOMAL ENZYMES.** Neufeld EF, Sando GN, Garvin AJ, Rome LH *J Supramol Struct* 6: 95-101, 1977 (Eng) \*DL/78MAY78

#### Romquin N

**PLATELET AGGREGATION INHIBITION BY AN ENDOTHELIAL CELL FACTOR.** Regnault F, Romquin N, Bure J, Duhalet J *Bibl Anat* 226-30, 1977 (Eng) DL/78MAY572

#### Romsos DR

**INFLUENCE OF MEAL FREQUENCY ON BODY WEIGHT, PLASMA METABOLITES, AND GLUCOSE AND CHOLESTEROL METABOLISM IN THE DOG.** Romsos DR, Belo PS, Bergen WG, Leveille GA *J Nutr* 108: 2-8, Feb 78 (Eng) DL/78MAY338

AMINO ACIDS (blood); ANIMAL; BLOOD UREA NITROGEN; BODY COMPOSITION; BODY WEIGHT; CHOLESTEROL (metabolism); DIET; DOGS; FEEDING PATTERNS; FEMALE; GLUCOSE TOLERANCE TEST; GLUCOSE (metabolism); TRIGLYCERIDES (blood); U.S. GOVT SUPPORTED, N.I.H. ).

#### Rorive G

**[DIURETICS IN CARDIAC INSUFFICIENCY]** Carlier J, Rorive G, Bovy P *Acta Clin Belg* 32: 198-208, 1977 (Fre) DL/78MAY508

#### Rosen F

**HEPATIC ENZYME ACTIVITIES IN WEANLING RATS WITH VENTROMEDIAL AND DORSOMEDIAL HYPOTHALAMIC LESIONS.** Bernardis LL, Rosen F, Goldman JK, Martin R J

*Neurosci Res* 3: 115-25, 1977 (Eng)  
DL/78MAY346

# Rosenbloom AL

**DIABETES MELLITUS: PERSPECTIVES IN 1978.** Guthrie RA, Rosenbloom AL 24: *SIDES A & B*, 37 MIN., 17 Jan 78 (Eng) DL/78MAY568

# Rosenman K

**BENEFITS OF SACCHARIN: A REVIEW.** Rosenman K *Environ Res* 15: 70-81, Feb 78 (Eng) [50 ref.] DL/78MAY268  
**BODY WEIGHT; DENTAL CARIES** (prevention & control); **DIABETES MELLITUS** (diet therapy); **DRUG COMPOUNDING; HUMAN; HYPERLIPEMIA** (prevention & control); **OBESITY** (prevention & control); **REVIEW; SACCHARIN** (therapeutic use).

# Ross G

**EXTRAPANCREATIC GLUCAGON IN CONTROL OF GLUCOSE TURNOVER IN DEPANCREATIZED DOGS.** Ross G, Lickley L, Vranic M *Am J Physiol* 234: e213-19, Feb 78 (Eng) DL/78MAY548

**ANIMAL; ARGININE** (pharmacodynamics); **BLOOD SUGAR** (metabolism); **DOGS; GLUCAGON** (blood, physiology); **INSULIN** (blood); **MALE; PANCREATCTOMY; SOMATOTROPIN RELEASE INHIBITING HORMONE** (pharmacodynamics).

# Rossier J

**BETA-ENDORPHIN AND ADRENOCORTICOTROPIN ARE SELECTED CONCOMITANTLY BY THE PITUITARY GLAND.** Guillemain R, Vargo T, Rossier J, Minick S, Ling N, Rivier C, Vale W, Bloom F *Science* 197: 1367-9, 30 Sep 77 (Eng) \*DL/78MAY105

# Rougereau A

**[THE EFFECT OF GLUCAGON ON THE MINERAL AND ORGANIC COMPOSITION OF TEETH]** Rougereau A, Muller A *Cah Odontostomatol Touraine* 7: 43-5, Jan-Mar 75 (Fre) DL/78MAY234

**ANIMAL; GLUCAGON** (deficiency, pharmacodynamics); **MINERALS** (analysis); **RATS; TOOTH CALCIFICATION** (drug effects); **TOOTH** (analysis).

# Roux E

**COLLAGEN-INDUCED PLATELET AGGREGATION AND COLLAGEN GLYCOSYLTRANSFERASE ACTIVITY IN DIABETIC PATIENTS.** Roux E, Cherbit G, Regnault F *Thromb Res* 11: 847-58, Dec 77 (Eng) DL/78MAY470

**AGING; BLOOD PLATELETS; CELL MEMBRANE** (enzymology); **COLLAGEN** (metabolism, pharmacodynamics); **DIABETES MELLITUS, JUVENILE** (complications, enzymology); **DIABETIC RETINOPATHY** (complications); **GLUCOSYLTRANSFERASES** (metabolism); **HUMAN; PLATELET AGGREGATION.**

# Rowlands BJ

**PLASMA INSULIN AND SURGERY. I. EARLY CHANGES DUE TO OPERATION IN THE INSULIN RESPONSE TO GLUCOSE.** Giddings AE, Mangnall D, Rowlands BJ, Clark RG *Ann Surg* 186: 681-6, Dec 77 (Eng) DL/78MAY555

**PLASMA INSULIN AND SURGERY. II. LATER CHANGES AND THE EFFECT OF INTRAVENOUS CARBOHYDRATES.** Giddings AE, Rowlands BJ, Mangnall D, Clark RG *Ann Surg* 186: 687-93, Dec 77 (Eng) DL/78MAY556

# Royle G

**THE METABOLIC RESPONSE TO GALACTOSE AS A MEASURE OF HEPATIC GLUCOSE RELEASE IN MAN.** Royle G, Kettlewell MG, Ilic V, Williamson DH *Clin Sci Mol Med* 54: 107-9, Jan 78 (Eng) DL/78MAY255

**ADULT; AGED; BLOOD SUGAR** (metabolism); **FEMALE; GALACTOSE** (administration & dosage, metabolism); **GALACTOSEMIA; GLUCOSE** (metabolism); **HALF-LIFE; HUMAN; INSULIN** (blood); **LACTATES** (blood); **LIVER** (metabolism); **MALE; MIDDLE AGE.**

# Rozengurt E

**GLYCOLYSIS IN QUIESCENT CULTURES OF 3T3 CELLS. STIMULATION BY SERUM, EPIDERMAL GROWTH FACTOR, AND INSULIN IN INTACT CELLS AND PERSISTENCE OF THE STIMULATION AFTER CELL HOMOGENIZATION.** Diamond I, Legg A, Schneider JA, Rozengurt E *J Biol Chem* 253: 866-71, 10 Feb 78 (Eng) DL/78MAY325

**GLYCOLYSIS OF QUIESCENT CULTURES OF 3T3 CELLS. ADDITION OF SERUM, EPIDERMAL GROWTH FACTOR, AND INSULIN INCREASES THE ACTIVITY OF PHOSPHOFRUCTOKINASE IN A PROTEIN SYNTHESIS-INDEPENDENT MANNER.** Schneider JA, Diamond I, Rozengurt E *J Biol Chem* 253: 872-7, 10 Feb 78 (Eng) DL/78MAY326

# Rubinstein M

**ISOLATION AND CHARACTERIZATION OF THE OPIOID PEPTIDES FROM RAT PITUITARY: BETA-LIPOTROPIN.** Rubinstein M, Stein S, Gerber LD, Udenfriend S *Proc Natl Acad Sci USA* 74: 3052-5, Jul 77 (Eng) \*DL/78MAY92

**AMINO ACIDS** (analysis); **ANIMAL; ENDORPHINS** (isolation & purification); **ENKEPHALINS** (isolation & purification); **LIPOTROPIN** (analysis, isolation & purification, metabolism); **MALE; MOLECULAR WEIGHT; PITUITARY GLAND** (analysis); **PITUITARY GLAND, ANTERIOR** (analysis); **RATS; RECEPTORS, NARCOTIC** (metabolism); **TRYPSIN** (metabolism).

# Rubinstein P

**COMPLETE TYPING OF THE HLA REGION IN FAMILIES. IV. THE GENETICS OF HLA-D AS SEEN BY THE HTC AND PLT METHODS.** Suciu-foca N, Susinno E, Nicholson J, Fotino M, Molinaro AP, Rubinstein P *Transplant Proc* 9: 1751-4, Dec 77 (Eng) DL/78MAY473

# Rudenko GN

**[ACTIVE DETECTION OF EARLY FORMS OF DIABETES MELLITUS IN OBESITY]** Kaira FM, Rudenko GN, Tarasenko LS *Vrach Delo* 92-3, Oct 77 (Rus) DL/78MAY486

# Ruggiero FM

**REDUCED ACTIVITY OF HEPATIC MICROSOMAL FATTY ACID CHAIN ELONGATION SYNTHESIS IN CLOFIBRATE-FED RATS.** Landriscina C, Ruggiero FM, Gnoni GV, Quagliariello E *Biochem Pharmacol* 26: 1401-4, 1 Aug 77 (Eng) \*DL/78MAY194

# Rumpf KD

**[ISOLOGOUS TRANSPLANTATION OF ISLETS OF LANGERHANS INTO RAT LIVER. LIGHT AND ELECTRON MICROSCOPY FINDINGS (AUTHORS TRANSL.)]** Ries P, Rumpf KD, Thiele J *Verh Dtsch Ges Pathol* 61: 103-7, 1977 (Ger) DL/78MAY502

# Rush B Jr

**THE PROTEIN-SPARING EFFECT OF PERIPHERALLY ADMINISTERED AMINO ACIDS.** Hastings O, Rush B Jr, Boonsong C, Jain KM *Am Surg* 43: 562-4, Sep 77 (Eng) \*DL/78MAY154

# Russell RO

**PULMONARY CONSOLIDATION ASSOCIATED WITH INFUSION OF A GLUCOSE-INSULIN-POTASSIUM SOLUTION IN ACUTE MYOCARDIAL INFARCTION.** Dye LE, Shin

MS, Witten DM, Russell RO, Rackley CE, Hogg DE *Chest* 73: 179-82, Feb 78 (Eng) DL/78MAY259

# Russell RO Jr

**EFFECT OF HEPARIN-INDUCED FREE FATTY ACID ELEVATION ON MYOCARDIAL OXYGEN CONSUMPTION IN MAN.** Rogers WJ, McDaniel HG, Moraski RE, Rackley CE, Russell RO Jr *Am J Cardiol* 40: 365-72, Sep 77 (Eng) \*DL/78MAY146

# Rykiert M

**HYPERGLYCEMIC HORMONE FROM THE EYESTALK OF THE SHRIMP CRANGON CRANGON.** Skorkowski EF, Rykiert M, Lipinska B *Gen Comp Endocrinol* 33: 460-6, Dec 77 (Eng) DL/78MAY307

# Ryllatt DB

**AMINO ACID SEQUENCES AT THE TWO SITES ON GLYCOGEN SYNTHETASE PHOSPHORYLATED BY CYCLIC AMP-DEPENDENT PROTEIN KINASE AND THEIR DEPHOSPHORYLATION BY PROTEIN PHOSPHATASE-III.** Proud CG, Ryllatt DB, Yeaman SJ, Cohen P *FEBS Lett* 80: 435-42, 15 Aug 77 (Eng) \*DL/78MAY44

# Ryman BE

**ORALLY ADMINISTERED LIPOSOMALLY ENTRAPPED INSULIN [PROCEEDINGS]** Patel HM, Ryman BE *Biochem Soc Trans* 5: 1739-41, 1977 (Eng) DL/78MAY293

# Rzempoluch E

**[GLUCOSE TOLERANCE TEST IN PATIENTS WITH ECZEMA AND ATOPIC DERMATITIS]** Pietrzykowska-Chorazak A, Rzempoluch E *Przegl Dermatol* 217-20, 1976 (Pol) DL/78MAY437

# Saakian AG

**[EFFECT OF ATROPINE ON GASTRIC SECRETION IN PEPTIC ULCER OF THE DUODENUM]** Saakian AG, Shvarts V, Makarova LA *Sov Med* 97-100, Dec 77 (Rus) DL/78MAY455

**ADULT; ANTACIDS; ATROPINE** (therapeutic use); **BRASSICA; CHRONIC DISEASE; CLINICAL RESEARCH; DRUG EVALUATION; DUODENAL ULCER** (drug therapy, physiopathology); **ENGLISH ABSTRACT; FEMALE; GASTRIC MUCOSA** (drug effects, secretion); **HISTAMINE** (diagnostic use); **HUMAN; INSULIN** (diagnostic use); **MALE; MIDDLE AGE; MINERAL WATERS.**

**[REGULATION OF GASTRIC SECRETION AND ITS STIMULATION BY INSULIN IN PEPTIC ULCER]** Saakian AG, Shvarts V *Ter Arkh* 49: 72-5, 1977 (Rus) DL/78MAY468

**ADULT; ATROPINE** (pharmacodynamics); **DEPRESSION, CHEMICAL; DUODENAL ULCER** (physiopathology); **ENGLISH ABSTRACT; FEMALE; GASTRIC JUICE** (secretion); **HUMAN; INSULIN** (pharmacodynamics); **MALE; MIDDLE AGE; PROPANOLOL** (pharmacodynamics); **STIMULATION, CHEMICAL.**

# Sabatino G

**[TRANSITORY CARDIOMEGALY IN THE NEWBORN INFANT]** Sabatino G, Midulla M, Bascietto F *Boll Soc Ital Biol Sper* 53: 1004-9, 30 Jun 77 (Ita) DL/78MAY208  
**CASE REPORT; FEMALE; HEART ENLARGEMENT** (etiology, radiography); **HUMAN; HYPOGLYCEMIA** (complications); **INFANT, NEWBORN; INFANT, NEWBORN, DISEASES** (radiography).

# Sacktor B

**TRANSPORT OF L-PROLINE AND D-GLUCOSE IN LUMINAL (BRUSH BORDER) AND CONTRALUMINAL (BASAL-LATERAL) MEM-**

## Safer B

BRANE VESICLES FROM THE RENAL CORTEX. Slack EN, Liang T, Sacktor B *Biochem Biophys Res Commun* 77: 891-7, 8 Aug 77 (Eng) \*DL/78MAY192

## Safer B

RESPIRATORY ACIDOSIS AND ITS REVERSIBILITY IN PERFUSED RAT HEART: REGULATION OF CITRIC ACID CYCLE ACTIVITY. Schaffer SW, Safer B, Ford C, Illingworth J, Williamson JR *Am J Physiol* 234: h40-51, Jan 78 (Eng) DL/78MAY540

## Safrazian SS

[RAT BRAIN AND LIVER GLUTAMINE SYNTHETASE AND GAMMA-GLUTAMYLTRANSFERASE ACTIVITY IN ALLOXAN DIABETES (IV)] Egan VB, Turshian GA, Akopian GE, Safrazian SS, Buniatian GK *Vopr Biochim Moza* 11: 29-34, 1976 (Rus) DL/78MAY482

[GLUTAMINE SYNTHETASE AND GLUTAMINASE ACTIVITY IN THE BRAIN AND LIVER HOMOGENATES AND SUBCELLULAR FRACTIONS OF RATS WITH ALLOXAN DIABETES (3)] Buniatian GK, Egan VB, Turshian GA, Akopian GE, Safrazian SS *Vopr Biochim Moza* 9: 17-24, 1974 (Rus) DL/78MAY483

## Saggerson D

ACUTE EFFECTS OF INSULIN ON GLYCEROL PHOSPHATE ACYLTRANSFERASE ACTIVITY, KETONEGENESIS AND SERUM FREE FATTY ACID CONCENTRATION IN PERFUSED RAT LIVER. Bates EJ, Topping DL, Sooranna SP, Saggerson D, Mayes PA *FEBS Lett* 84: 225-8, 15 Dec 77 (Eng) DL/78MAY275

A SELECTIVE DECREASE IN MITOCHONDRIAL GLYCEROL PHOSPHATE ACYLTRANSFERASE ACTIVITY IN LIVERS FROM STREPTOZOTOCIN-DIABETIC RATS. Bates EJ, Saggerson D *FEBS Lett* 84: 229-32, 15 Dec 77 (Eng) DL/78MAY276

## Sakai Y

[EFFECT OF BROMOCRIPTINE (CB-154) IN DIABETES ASSOCIATED WITH ACROMEGALY] Sakai Y, Nagasaka A, Makino H *Hormon To Rinsho* 25: 1323-6, Dec 77 (Jpn) DL/78MAY251

ACROMEGALY (complications, drug therapy); CASE REPORT; DIABETES MELLITUS (complications, drug therapy); HUMAN; MALE; MIDDLE AGE; SOMATOTROPIN (blood); 2-BROMOERGOCRYPTINE (pharmacodynamics, therapeutic use).

## Sakaue E

[PROBLEMS AND POSSIBILITIES OF PHOTOCOAGULATION (AUTHORS TRANSL)] Shimizu K, Noyori K, Sakaue E *Nippon Ganka Gakkai Zasshi* 81: 1666-91, 10 Oct 77 (Jpn) DL/78MAY525

## Salans LB

GLUCOSE TRANSPORT IN ISOLATED RAT ADIPOCYTES WITH MEASUREMENTS OF L-ARABINOSE UPTAKE. Foley JE, Cushman SW, Salans LB *Am J Physiol* 234: e112-9, Feb 78 (Eng) DL/78MAY544

## Salganicoff L

POLYAMINE EFFECTS ON SUCCINATE-LINKED AND ALPHAKETOGLUTARATE-LINKED RAT LIVER MITOCHONDRIAL RESPIRATION. Chaffee RR, Salganicoff L, Arine RM, Rochelle RH, Schultz EL *Biochem Biophys Res Commun* 77: 1009-16, 8 Aug 77 (Eng) \*DL/78MAY189

## Sallis PJ

NOCTURNAL PENILE TUMESCENCE AND DIAGNOSIS IN DIABETIC IMPOTENCE. Karacan I, Sallis PJ, Ware JC, Dervent B, Wil-

## Diabetes Literature—Author Index

liams RL, Scott FB, Attia SL, Beutler LE *Am J Psychiatry* 135: 191-7, Feb 78 (Eng) DL/78MAY549

## Salling AL

[REPORT FROM HVIDRE HOSPITAL: ALL PROFESSIONAL GROUPS ARE INVOLVED IN THE TEACHING OF DIABETICS] Salling AL *Sygeplejersken* 70: 4-6, 7 Dec 77 (Dan) DL/78MAY462

AMBULATORY CARE; DENMARK; DIABETES MELLITUS; HOSPITALIZATION; HUMAN; PATIENT CARE TEAM; PATIENTS (education).

## Salocks CB

PROLACTIN AND GROWTH HORMONE SECRETION IN DIET-INDUCED OBESITY IN MICE. Sinha YN, Thomas JW, Salocks CB, Wickes MA, VanderLaan WP *Horm Metab Res* 9: 277-82, Jul 77 (Eng) \*DL/78MAY54

## Samuels HH

MODULATION OF THYROID HORMONE NUCLEAR RECEPTOR LEVELS BY 3,5,3-TRIODO-L-THYRONINE IN GH1 CELLS. EVIDENCE FOR TWO FUNCTIONAL COMPONENTS OF NUCLEAR-BOUND RECEPTOR AND RELATIONSHIP TO THE INDUCTION OF GROWTH HORMONE SYNTHESIS. Samuels HH, Stanley F, Shapiro LE *J Biol Chem* 252: 6052-60, 10 Sep 77 (Eng) \*DL/78MAY60

CELL DIVISION; CELL LINE; CELL NUCLEUS (metabolism); DNA (metabolism); KINETICS; PROTEINS (biosynthesis); RECEPTORS, HORMONE (drug effects, metabolism); SOMATOTROPIN (biosynthesis); TRIIODOTHYRONINE (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

## Sancho MJ

[EFFECT OF TRIIODOTHYRONINE ON LIVER GLYCOGEN IN GALLUS DOMESTICUS (AUTHORS TRANSL)] Sancho MJ, Macarulla JM, Segovia JL *Rev Esp Fisiol* 33: 159-62, Sep 77 (Spa) \*DL/78MAY102

ANIMAL; CHICK EMBRYO; CHICKENS; COMPARATIVE STUDY; ENGLISH ABSTRACT; LIVER GLYCOGEN (biosynthesis); STIMULATION, CHEMICAL; TIME FACTORS; TRIIODOTHYRONINE (pharmacodynamics).

## Sando GN

THE TRANSPORT OF LYSOSOMAL ENZYMES. Neufeld EF, Sando GN, Garvin AJ, Rome LH *J Supramol Struct* 6: 95-101, 1977 (Eng) \*DL/78MAY78

## Sandow J

LOCATION OF HYPOTHALAMIC CONTROL CENTRES AND NATURE OF REGULATORY HORMONES. Sandow J *Clin Endocrinol Metab* 6: 155-65, Mar 77 (Eng) [57 ref.] \*DL/78MAY20

HUMAN; HYPOTHALAMUS (physiology); LH-FSH RELEASING HORMONE (physiology); MSH (physiology); OXYTOCIN (physiology); PITUITARY HORMONE RELEASING HORMONES (physiology); REVIEW; SOMATOTROPIN RELEASE INHIBITING HORMONE (physiology); THYROTROPIN RELEASING HORMONE (physiology); VASOPRESSIN (physiology).

## Sankale M

[PRACTICAL MANAGEMENT OF THE TREATMENT OF DIABETIC GANGRENE IN BLACK AFRICA (APPROPOS OF 50 UNPUBLISHED PERSONAL CASES)] Sankale M, Diop B, Bao O *Bull Soc Med Afr Noire Lang Fr* 22: 248-57, 1977 (Fre) DL/78MAY246

AGED; DIABETES MELLITUS (complications); DIABETIC ANGIOPATHIES (therapy); ENGLISH ABSTRACT; FEMALE; FOOT (blood supply); GANGRENE (surgery, therapy); HUMAN; MALE; MIDDLE AGE.

## Santiago E

GLUCOSE-6-PHOSPHATASE INACTIVATION AND PEROXIDATION OF PHOSPHATIDYLCHOLINE IN MICROSOMAL MEMBRANES. Santiago E, Lopez-Moratalla N, Lopez-Zabalza MJ *Rev Esp Fisiol* 33: 191-6, Sep 77 (Eng) \*DL/78MAY103

ANIMAL; ASCORBIC ACID (metabolism); COMPARATIVE STUDY; GLUCOSEPHOSPHATASE (antagonists & inhibitors); MALE; MEMBRANES (enzymology, metabolism); MICROSOMES, LIVER (enzymology); PHOSPHATIDYLCHOLINES (metabolism); PHOSPHOLIPIDS (metabolism); RATS.

## Santoro MG

EFFECT OF A SYNTHETIC ANALOGUE OF PGE2 ON EXOCRINE AND ENDOCRINE PANCREATIC FUNCTION IN THE RAT. Dodi G, Santoro MG, Jaffe BM *Surgery* 83: 206-13, Feb 78 (Eng) DL/78MAY460

## Sargentelli L

IMMUNOREACTIVE INSULIN IN ISCHAEMIC HEART DISEASE [LETTER] Povoia H Jr, Pegado Kanitz MI, Sargentelli L *Acta Physiol Lat Am* 26: 270-2, 1976 (Eng) DL/78MAY521

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SERUM TOLBUTAMIDE AND CHLOROPROPAMIDE CONCENTRATIONS IN PATIENTS WITH DIABETES MELLITUS. Melander A, Sartor G, Wahlin E, Schersten B, Bitzen PO *Br Med J* 1: 142-4, 21 Jan 78 (Eng) DL/78MAY226

## Sartori F

[ACTION OF CALCIUM DOBESILATE ON CAPILLARY FRAGILITY IN DIABETICS] Berretta P, Sartori F *Arch Sci Med (Torino)* 134: 329-36, Jul-Sep 77 (Ita) DL/78MAY565

## Sasak W

THE IDENTIFICATION OF LIPID ACCEPTOR AND THE BIOSYNTHESIS OF LIPID-LINKED GLUCOSE IN BACILLUS STEAROTHERMOPHILUS. Sasak W, Chojnacki T *Arch Biochem Biophys* 181: 402-10, Jun 77 (Eng) \*DL/78MAY168

BACILLUS STEAROTHERMOPHILUS (analysis, enzymology, metabolism); CARBOHYDRATE ISOMERASES (metabolism); CARBOHYDRATES (analysis); CELL WALL (analysis); DETERGENTS (pharmacodynamics); FATTY ALCOHOLS (isolation & purification, metabolism); GLYCOLIPIDS (biosynthesis); HYDROGEN-ION CONCENTRATION (physiology); KINETICS; ORGANOPHOSPHORUS COMPOUNDS (isolation & purification, metabolism); TERPENES (isolation & purification, metabolism); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H. ); URIDINE DIPHOSPHATE GALACTOSE (metabolism); URIDINE DIPHOSPHATE GLUCOSE (metabolism); URIDINE DIPHOSPHATE N-ACETYLGLUCOSAMINE (metabolism); URIDINE DIPHOSPHATE SUGARS (metabolism).

## Sato A

CHARACTERISTICS OF THYROTROPIN BINDING TO BOVINE THYROID PLASMA MEMBRANES AND THE INFLUENCE OF HUMAN IGG. Sato A, Zakarija M, McKenzie JM *Endocr Res Commun* 4: 95-113, 1977 (Eng) \*DL/78MAY24

BINDING SITES; CATTLE; CELL MEMBRANE (metabolism); HUMAN; IGG (pharmacodynamics); MEMBRANE PROTEINS (pharmacodynamics); PERCHLORIC ACIDS (pharmacodynamics); PROPYLTHIOURACIL (pharmacodynamics); SERUM GLOBULINS (pharmacodynamics); TEMPERATURE; THYROID GLAND (enzymology, metabolism); THYROTROPIN (metabolism).



**Sauberli H**

EFFECT OF GASTRIC ANTRUM ON REGULATION OF LOWER ESOPHAGEAL SPHINCTER PRESSURE IN THE DOG. Koelz HR, Hollinger AP, Sauberli H, Largiadier F, Siewert R, Blum AL *Am J Physiol* 234: e157-61, Feb 78 (Eng) DL/78MAY545

**Savi M**

HLA ANTIGENS AND INSULIN DEPENDENT DIABETES MELLITUS. A FAMILY STUDY. Savi M, Neri TM, Zavaroni I, Coscelli I *Diabetes Metab* 3: 259-62, Dec 77 (Eng) DL/78MAY289  
ADULT; DIABETES MELLITUS (drug therapy, etiology, immunology); FEMALE; GENES; IMMUNE RESPONSE; GLUCOSE (metabolism); HUMAN; HL-A ANTIGENS; INSULIN (therapeutic use); MALE; OBESITY IN DIABETES (immunology); PHENOTYPE.

**Scacchi R**

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RESPIRATORY ACIDOSIS AND ITS REVERSIBILITY IN PERFUSED RAT HEART: REGULATION OF CITRIC ACID CYCLE ACTIVITY. Schaffer SW, Safer B, Ford C, Illingworth J, Williamson JR *Am J Physiol* 234: h40-51, Jan 78 (Eng) DL/78MAY540

ACIDOSIS, RESPIRATORY (physiopathology); ADENOSINE TRIPHOSPHATE (biosynthesis); AMINO ACIDS (metabolism); ANIMAL; CARDIAC OUTPUT; GLUCOSE (metabolism); HEART (physiology); IN VITRO; INSULIN (pharmacodynamics); LACTATES (metabolism); MALE; MYOCARDIUM (metabolism); NAD (metabolism); NADP (metabolism); OXYGEN CONSUMPTION; PERFUSION; RATS; U.S. GOVT SUPPORTED, N.I.H. ).

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COMPARISON OF THE EFFECT OF SOMATOSTATIN ON GASTROINTESTINAL FUNCTION IN THE CONSCIOUS AND ANAESTHETIZED CAT AND ON THE ISOLATED CAT PANCREAS. Albinus M, Blair EL, Case RM, Coy DH, Gomez-Pan A, Hirst BH, Reed JD, Schally AV, Shaw B, Smith PA, Smy JR *J Physiol (Lond)* 269: 77-91, Jul 77 (Eng) \*DL/78MAY70

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SERUM LEVELS OF IMMUNOREACTIVE GASTRIC INHIBITORY POLYPEPTIDE AND INSULIN IN URAEMIC PATIENTS. Matthaei D, Ebert R, Schauder P, Frerichs H, Creutzfeldt W, Scheler F *Proc Eur Dial Transplant Assoc* 14: 550-6, 1977 (Eng) DL/78MAY424

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SERUM TOLBUTAMIDE AND CHLORPROPAMIDE CONCENTRATIONS IN PATIENTS WITH DIABETES MELLITUS. Melander A, Sartor G, Wahlin E, Schersten B, Bitzen PO *Br Med J* 1: 142-4, 21 Jan 78 (Eng) DL/78MAY226

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EFFECT OF HYPERAMMONEMIA ON INSULIN-MEDIATED GLUCOSE UPTAKE IN RATS. Schlienger JL, Imier M *Metabolism* 27: 175-83, Feb 78 (Eng) DL/78MAY383  
AMMONIA (blood); ANIMAL; BLOOD SUGAR (metabolism); EPINEPHRINE (pharmacodynamics); INSULIN ANTAGONISTS (injuries); INSULIN (blood); MALE; PROPRANOLOL (pharmacodynamics); RATS.

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[PANCREATIC FUNCTION AFTER INJURY TO THE PANCREAS AND TRAUMATIC PANCREATITIS] Lankisch PG, Schmidt H *Schweiz*

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DIABETES MELLITUS (complications); GASTROINTESTINAL DISEASES (complications); GINGIVAL POCKET (therapy); HUMAN; MOUTH, EDENTULOUS; ORAL HYGIENE; PERIODONTAL DISEASES (etiology); PERIODONTITIS (therapy); TOOTH EXTRACTION; TOOTH MOBILITY.

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[IMMUNOSUPPRESSION AND FORMATION OF ANTIBODIES. THE INFLUENCE OF A SYNTHETIC ACTH DRUG ON ANTIBODY FORMATION IN THE RABBIT (AUTHORS TRANSL)] Gotz H, Nutzmann R, Schneider HH, Weller H *Arzneim Forsch* 27: 1365-73, Jul 77 (Ger) \*DL/78MAY202

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[STUDIES ON THE EFFECTS OF INTRAVENOUS ADMINISTRATION OF GLUCOSE, FRUCTOSE, INVERTOSE AND SORBITOL ON VARIOUS BLOOD CONSTITUENTS OF BLOOD PLASMA (MONOSACCHARIDES, INSULIN, LACTATE, PYRUVATE AND FREE FATTY ACIDS AS WELL AS GLUTAMATE-OXALOACETATE TRANSAMINASE) IN THE HORSE] Koudier S, Kolb FE, Muller I, Pfüller C, Schneider J *Arch Exp Veterinarmed* 31: 701-18, 1977 (Ger) DL/78MAY560

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GLYCOLYSIS IN QUIESCENT CULTURES OF 3T3 CELLS. STIMULATION BY SERUM, EPIDERMAL GROWTH FACTOR, AND INSULIN IN INTACT CELLS AND PERSISTENCE OF THE STIMULATION AFTER CELL HOMOGENIZATION. Diamond I, Legg A, Schneider JA, Rozengurt E *J Biol Chem* 253: 866-71, 10 Feb 78 (Eng) DL/78MAY325

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BLOOD; CALCIUM (pharmacodynamics); CELLS, CULTURED (metabolism); CYCLOHEXIMIDE (pharmacodynamics); ENZYME ACTIVATION; EPIDERMAL GROWTH FACTORS (pharmacodynamics); GLYCOLYSIS (drug effects); INSULIN (pharmacodynamics); PEPTIDES (pharmacodynamics); PHOSPHOFRUCTOKINASE (metabolism); PROTEINS (biosynthesis); TIME FACTORS.

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ADULT; CALORIC INTAKE; HUMAN; MALE; OBESITY (diet therapy, therapy).

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MECHANISM OF ACTION OF SOMATOSTATIN: GROWTH-HORMONE RELEASE [45CA]CALCIUM ION EFFLUX AND CYCLIC NUCLEOTIDE METABOLISM OF BOVINE ANTERIOR-PITUITARY SLICES IN THE PRESENCE OF PROSTAGLANDIN E2 AND 1-METHYL-3-ISOBUTYLXANTHINE. Bicknell RJ, Young PW, Schofield JG, Albano J *Biochem Soc Trans* 5: 219-22, 1977 (Eng) \*DL/78MAY47

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[PROBLEMS IN THE THERAPY OF OBESITY LOW CARBOHYDRATE, RELATIVELY FAT-RICH DIET: BIOCHEMICAL FINDINGS] Schonborn J, Eysselein V, Rabast U, Kasper H *Verh Dtsch Ges Inn Med* 82 pt 2: 1364-72, 1976 (Ger) \*DL/78MAY116  
BLOOD SUGAR; DIETARY CARBOHYDRATES (administration & dosage); DIETARY FATS (administration & dosage); GLYCERIN (blood); KETONE BODIES (blood); OBESITY (blood, diet therapy).

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POLYAMINE EFFECTS ON SUCCINATE-LINKED AND ALPHAKETOGLUTARATE-LINKED RAT LIVER MITOCHONDRIAL RESPIRATION. Chaffee RR, Salganicoff L, Arine RM, Rochelle RH, Schultz EL *Biochem Biophys Res Commun* 77: 1009-16, 8 Aug 77 (Eng) \*DL/78MAY189

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[EFFECT OF PROLONGED INTRAVENOUS GLUCOSE ADMINISTRATION ON SOMATOTROPIC HORMONE SECRETION IN PERSONS WITH SUSPECTED PROTODIABETES] Schulz B, Michaelis D, Neumann J, Ziegler M, Jutzi E *Sov Med* 108-13, Dec 77 (Rus) DL/78MAY451

ADULT; ANTIGENS (analysis); BLOOD SUGAR (analysis); COMPARATIVE STUDY; ENGLISH ABSTRACT; FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; INFUSIONS, PARENTERAL; INSULIN (blood); MALE; OBESITY (blood); PREDIABETIC STATE (blood); SOMATOTROPIN (blood, secretion); TIME FACTORS.

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[CORONARY HEART DISEASE RISK FACTORS IN WHITE-COLLAR AND MANUAL WORKERS AT A LARGE MUNICH INDUSTRIAL FIRM (AUTHORS TRANSL)] Schwalb H, van Eimeren W, Kunzmann G, Pfefferkorn L *MMW* 119: 1575-80, 9 Dec 77 (Ger) DL/78MAY396  
ADULT; AGE FACTORS; CORONARY DISEASE (etiology); ENGLISH ABSTRACT; FEMALE; GERMANY, WEST; HUMAN; HYPERCHOLESTEREMIA (occurrence); HYPERTENSION (occurrence); MALE;

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MIDDLE AGE; OBESITY (occurrence); OCCUPATIONAL DISEASES (etiology); PREDIABETIC STATE (occurrence); SEX FACTORS; SMOKING (occurrence).

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AN ACCURATE DETERMINATION OF HUMAN GROWTH HORMONE CONTENT IN DIFFERENT PITUITARY EXTRACTS, USING A RADIOIMMUNOASSAY WITH POLYACRYLAMIDE GEL ELECTROPHORESIS AS A BOUND-FREE SEPARATION SYSTEM. Bartolini P, Marques de Assis L, Schwarz I, Pieroni RR *Clin Chim Acta* 79: 223-36, 15 Aug 77 (Eng) \*DL/78MAY16

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ADOLESCENCE; FASTING; HUMAN; MALE; OBESITY (diet therapy, drug therapy); THYROID HORMONES (therapeutic use).

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FINE STRUCTURAL CHANGES IN DOG MYOCARDIUM EXPOSED TO LOWERED PH IN VIVO. Armiger LC, Seelye RN, Phil D, Elswijk JG, Carnell VM, Gavin JB, Herdson PB *Lab Invest* 37: 237-42, Sep 77 (Eng) \*DL/78MAY75

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[EFFECT OF TRIIODOTHYRONINE ON LIVER GLYCOGEN IN GALLUS DOMESTICUS (AUTHORS TRANSL)] Sancho MJ, Macarulla JM, Segovia JL *Rev Esp Fisiol* 33: 159-62, Sep 77 (Spa) \*DL/78MAY102

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[INSULIN RESISTANCE. A CASE REPORT (LETTER)] Seidemann W *Dtsch Med Wochenschr* 102: 1893-4, 23 Dec 77 (Ger) DL/78MAY261  
ADULT; CASE REPORT; HUMAN; INSULIN RESISTANCE; MALE.

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[IMMEDIATE AND LONG TERM PROGNOSIS OF RECENT MYOCARDIAL INFARCTION] Sellier P, Leger P, Diebold B, Hoffmann J, Guerinon J, Ourbak P, Maurice P *Arch Mal Coeur* 70: 115-62, Nov 77 (Fre) DL/78MAY559  
AGE FACTORS; AGED; ARRHYTHMIA (complications); CARDIOVASCULAR DISEASES (complications); DIABETES MELLITUS (complications); ENGLISH ABSTRACT; FEMALE; FOLLOW-UP STUDIES; HUMAN; MALE; MIDDLE AGE; MYOCARDIAL INFARCT (complications, mortality); OBESITY (complications); PROGNOSIS; RETROSPECTIVE STUDIES; SEX FACTORS.

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PERMEABILITY OF THE MITOCHONDRIAL MEMBRANE TO BICARBONATE IONS. Selwyn MJ, Walker HA *Biochem J* 166: 137-9, 15 Jul 77 (Eng) \*DL/78MAY182  
ANIMAL; BICARBONATES (metabolism); IN VITRO; MEMBRANE POTENTIALS; MITOCHONDRIA, LIVER (metabolism); MITOCHONDRIAL SWELLING; PERMEABILITY; RATS.

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MEMBRANE WATER CHANNELS AND SH-GROUPS. Shaafi RI, Feinstein MB *Adv Exp Med Biol* 84: 67-83, 1977 (Eng) \*DL/78MAY142  
BIOLOGICAL TRANSPORT, ACTIVE (drug effects); BLOOD PROTEIN ELECTROPHORESIS; BLOOD PROTEINS (metabolism); ERYTHROCYTE MEMBRANE (drug effects, metabolism); ERYTHROCYTES (metabolism); HUMAN; IN VITRO; LIPOSOMES (metabolism); MEMBRANE PROTEINS (blood); SULFHYDRYL COMPOUNDS (blood); SULFHYDRYL REAGENTS (pharmacodynamics); TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; WATER (metabolism).

## Shannon IL

SUCROSE-THE TOOTH'S MORTAL ENEMY; FLUORIDE-THE TOOTH'S BEST FRIEND. Shannon IL *J Dent Child* 44: 429-37, Nov-Dec 77 (Eng) DL/78MAY331

BEVERAGES; CHILD; DENTAL CARIES (chemically induced, prevention & control); DIABETES MELLITUS (chemically induced); DIETARY CARBOHYDRATES (administration & dosage); FLUORIDATION; FLUORIDES (therapeutic use); FLUORIDES, TOPICAL (therapeutic use); FOOD ANALYSIS; FOOD LABELING; HEART DISEASES (chemically induced); HISTORICAL ARTICLE; HISTORY OF MEDICINE, ANCIENT; HISTORY OF MEDICINE, 15TH CENT.; HISTORY OF MEDICINE, 20TH CENT.; HUMAN; MOUTHWASHES (therapeutic use); OBESITY (chemically induced); SUCROSE (adverse effects, analysis); SWEETENING AGENTS (history); TOOTH (drug effects); UNITED STATES.

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MODULATION OF THYROID HORMONE NUCLEAR RECEPTOR LEVELS BY 3,5,3-TRIMETHOXY-L-THYRONINE IN GH1 CELLS. EVIDENCE FOR TWO FUNCTIONAL COMPONENTS OF NUCLEAR-BOUND RECEPTOR AND RELATIONSHIP TO THE INDUCTION OF GROWTH HORMONE SYNTHESIS. Samuels HH, Stanley F, Shapiro LE *J Biol Chem* 252: 6052-60, 10 Sep 77 (Eng) \*DL/78MAY60

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COMPARISON OF THE EFFECT OF SOMATOSTATIN ON GASTROINTESTINAL FUNCTION IN THE CONSCIOUS AND ANAESTHETIZED CAT AND ON THE ISOLATED CAT PANCREAS. Albinus M, Blair EL, Case RM, Coy DH, Gomez-Pan A, Hirst BH, Reed JD, Schally AV, Shaw B, Smith PA, Smy JR *J Physiol (Lond)* 269: 77-91, Jul 77 (Eng) \*DL/78MAY70

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[SERUM IMMUNOGLOBULINS IN CHILDREN WITH DIABETES MELLITUS] Dreval AV, Zhukovskii MA, Shcherbachova LN, Mikhailova VS, Malkina LA *Probl Endokrinol (Mosk)* 23: 35-40, Nov-Dec 77 (Rus) DL/78MAY417

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THE SYNTHESIS OF HIPPURATE FROM BENZOATE AND GLYCINE BY RAT LIVER MITOCHONDRIA. SUBMITOCHONDRIAL LOCALIZATION AND KINETICS. Gatley SJ, Sherratt HS *Biochem J* 166: 39-47, 15 Jul 77 (Eng) \*DL/78MAY183

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INFLUENCE OF BASAL INSULIN AND GLUCAGON SECRETION ON POTASSIUM AND SODIUM METABOLISM. STUDIES WITH SOMATOSTATIN IN NORMAL DOGS AND IN NORMAL AND DIABETIC HUMAN BEINGS. DeFronzo RA, Sherwin RS, Dillingham M, Hender R, Tamborlane WV, Felig P *J Clin Invest* 61: 472-9, Feb 78 (Eng) DL/78MAY330

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[ERYTHROCYTE AGGREGATION IN DIABETIC RETINOPATHY] Beliaeva MI, Shestakov VA *Vestn Oftalmol* 57-60, 1977 (Rus) DL/78MAY478

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[MORPHOFUNCTIONAL CHANGES IN THE INSULAR APPARATUS OF THE PANCREAS FOLLOWING HYPOPHYSECTOMY AND ADMINISTRATION OF SOMATOTROPIC HORMONE] Shevchuk IA, Kovtuniak NA, Iarmolchuk GM, Panchuk NN *Arkiv Anat Gistol Embriol* 73: 68-72, Dec 77 (Rus) DL/78MAY566

ANIMAL; BLOOD SUGAR (metabolism); ENGLISH ABSTRACT; HISTOCYTOCHEMISTRY; HYPOPHYSECTOMY; ISLANDS OF LANGERHANS (metabolism); MALE; RATS; SOMATOTROPIN (pharmacodynamics); ZINC (metabolism).

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[PROBLEMS AND POSSIBILITIES OF PHOTOCOAGULATION (AUTHORS TRANSL.)] Shimizu K, Noyori K, Sakae E *Nippon Ganka Gakkai Zasshi* 81: 1666-91, 10 Oct 77 (Jpn) DL/78MAY525

DIABETIC RETINOPATHY (surgery); ENGLISH ABSTRACT; FEMALE; HUMAN; LIGHT COAGULATION (instrumentation, methods); MACULAR DEGENERATION (surgery); MIDDLE AGE; RETINAL DISEASES (surgery); RETINAL HEMORRHAGE (surgery); RETINITIS (surgery).

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[TREATMENT WITH BROMOCRIPTINE OF ACROMEGALY ASSOCIATED WITH DIABETES; WITH SPECIAL REFERENCE TO ABILITY OF THE DRUG TO IMPROVE GLUCOSE METABOLISM DISORDER] Nonaka K, Shimizu T, Miyake S, Watanabe F, Kawano N *Horumon To Rinsho* 25: 1328-9, Dec 77 (Jpn) DL/78MAY252

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STIMULATORY EFFECT OF GLYCINE ON HUMAN GROWTH HORMONE SECRETION. Kasai K, Kobayashi M, Shimoda SI *Metabolism* 27: 201-8, Feb 78 (Eng) DL/78MAY385

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PULMONARY CONSOLIDATION ASSOCIATED WITH INFUSION OF A GLUCOSE-INSULIN-POTASSIUM SOLUTION IN ACUTE MYOCARDIAL INFARCTION. Dye LE, Shin MS, Witten DM, Russell RO, Rackley CE, Hogg DE *Chest* 73: 179-82, Feb 78 (Eng) DL/78MAY259

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[GROWTH OF COXSACKIE B VIRUSES IN THE MOUSE PANCREAS] Shingu M, Ishitsuka M *J Jpn Assoc Infect Dis* 51: 87-91, Mar 77 (Jpn) \*DL/78MAY64

ANIMAL; COXSACKIE VIRUS INFECTIONS (microbiology); COXSACKIE VIRUSES (growth & development); ENGLISH ABSTRACT; MICE; PANCREAS (microbiology).

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[EFFECT OF NORMAL SATURATED FATTY ACIDS ON RAT LIVER MITOCHONDRIA] Sholts KF, Zakharova TS *Biokhimiya* 42: 809-14, May 77 (Rus) \*DL/78MAY10

ANIMAL; DOSE-RESPONSE RELATIONSHIP, DRUG; ELECTRON TRANSPORT; ENGLISH ABSTRACT; FATTY ACIDS (pharmacodynamics); MEMBRANES (metabolism); MITOCHONDRIA, LIVER (drug effects, metabolism); RATS; STRUCTURE-ACTIVITY RELATIONSHIP; SURFACE PROPERTIES.

## Shrago E

EFFECTS OF EXPERIMENTAL DIABETES AND FOOD INTAKE ON RAT INTESTINE AND SERUM ALKALINE PHOSPHATASE. Chua B, Shrago E *J Nutr* 108: 196-202, Feb 78 (Eng) DL/78MAY337

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[HYPOTHESIS CONCERNING THE QUANTUM MECHANISM OF ACTIVE TRANSPORT] Shtokman MI *Biophysika* 22: 448-51, May-Jun 77 (Rus) \*DL/78MAY6

BIOLOGICAL TRANSPORT, ACTIVE; CELL MEMBRANE (metabolism); MODELS, BIOLOGICAL.

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[BLOOD LEVEL OF HYPERGLYCEMIA AND IMMUNOREACTIVE INSULIN IN BURN SHOCK] Shurygin DA, Mazurov VI, Fedorov IuP *Voen Med Zh* 36-8, Dec 77 (Rus) DL/78MAY481

ADOLESCENCE; ADULT; ANIMAL; BLOOD SUGAR (analysis); BURNS (blood); HUMAN; HYPERGLYCEMIA (blood); INSULIN ANTIBODIES (analysis); MALE; MIDDLE AGE; RABBITS; SHOCK, TRAUMATIC (blood).

## Shvarts VIA

[EFFECT OF ATROPINE ON GASTRIC SECRETION IN PEPTIC ULCER OF THE DUODENUM] Saakian AG, Shvarts VIA, Makarova LA *Sov Med* 97-100, Dec 77 (Rus) DL/78MAY455

[REGULATION OF GASTRIC SECRETION AND ITS STIMULATION BY INSULIN IN PEPTIC

ULCER] Saakian AG, Shvarts VIA *Ter Arkh* 49: 72-5, 1977 (Rus) DL/78MAY468

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INFLUENCE OF GLUCOSE AND INHIBITORS OF GLYCOLYSIS ON RELEASE OF TOTAL PROTEINS AND ENZYMES FROM HUMAN LEUKOCYTES. Lahrichi M, Tarallo P, Houpert Y, Siest G *Clin Chim Acta* 79: 479-87, 1 Sep 77 (Eng) \*DL/78MAY17

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EFFECT OF GASTRIC ANTRUM ON REGULATION OF LOWER ESOPHAGEAL SPHINCTER PRESSURE IN THE DOG. Koelz HR, Hollinger AP, Saubert H, Largiadier F, Siewert R, Blum AL *Am J Physiol* 234: e157-61, Feb 78 (Eng) DL/78MAY545

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ENZYMATIC IODINATION OF HUMAN GROWTH HORMONE BY MYELOPEROXIDASE IN THE SOLID STATE. Silberring J, Dubin A *Clin Chim Acta* 79: 609-10, 15 Sep 77 (Eng) \*DL/78MAY18

CHEMISTRY; HORSES; HUMAN; IODINE RADIOISOTOPES (diagnostic use); ISOTOPE LABELING (methods); MYELOPEROXIDASE (diagnostic use); PEROXIDASES (diagnostic use); SOMATOTROPIN (analysis, chemical synthesis, immunology).

## Simon SA

A COMMENT ON THE WATER PERMEABILITY THROUGH PLANAR LIPID BILAYERS [LETTER] Simon SA *J Gen Physiol* 70: 123-7, Jul 77 (Eng) \*DL/78MAY66

DIFFUSION; MEMBRANES, ARTIFICIAL; MODELS, BIOLOGICAL; WATER.

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HILA-A,B,C AND B-LYMPHOCYTE ALLOANTIGENS IN INSULIN-DEPENDENT DIABETES. Solow H, Hidalgo R, Blajchman M, Singal DP *Transplant Proc* 9: 1859-61, Dec 77 (Eng) DL/78MAY476

## Singh M

NEUROHORMONAL CONTROL OF PANCREATIC SECRETION. A REVIEW. Singh M, Webster PD *Gastroenterology* 74: 294-309, Feb 78 (Eng) [210 ref.] DL/78MAY305

ANIMAL; AUTONOMIC NERVOUS SYSTEM (physiology); BIRDS; BOMBESIN (pharmacodynamics); CATTLE; CHEMISTRY; CHOLECYSTOKININ (physiology); DRUG INTERACTIONS; GASTRINS (physiology); GLUCAGON (physiology); HORMONES (physiology); HUMAN; HYPOTHALAMUS (physiology); MODELS, BIOLOGICAL; MOTILIN (physiology); PANCREAS (secretion); PANCREATIC HORMONES (physiology); PARASYMPATHOLYTICS (pharmacodynamics); PARASYMPATHOMIMETICS (pharmacodynamics); PEPTIDES (physiology); REVIEW; SECRETIN (pharmacodynamics, physiology); SOMATOTROPIN RELEASE INHIBITING HORMONE (physiology); STRUCTURE-ACTIVITY RELATIONSHIP; U.S. GOVT SUPPORTED, N.I.H. ; U.S. GOVT SUPPORTED, NON-N.I.H. ; VAGUS NERVE (physiology).

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**PROLACTIN AND GROWTH HORMONE SECRETION IN DIET-INDUCED OBESITY IN MICE.** Sinha YN, Thomas JW, Salocks CB, Wickes MA, VanderLaan WP *Horm Metab Res* 9: 277-82, Jul 77 (Eng) \*DL/78MAY54  
**ANIMAL; BODY WEIGHT; COMPARATIVE STUDY; DIET; DIETARY FATS (metabolism); FEMALE; MALE; MICE; MICE, INBRED C3H; MICE, OBESE; OBESITY (metabolism); ORGAN WEIGHT; PERPHENAZINE (pharmacodynamics); PITUITARY GLAND (metabolism); PROLACTIN (secretion); SOMATOTROPIN (secretion); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).**

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**THE EFFECT OF SEX HORMONES ON GLYCOSAMINOGLYCAN CONTENT OF CANINE AORTA AND CORONARY ARTERIES.** Sirek OV, Sirek A, Fikar K *Atherosclerosis* 27: 227-33, Jun 77 (Eng) \*DL/78MAY206

**ANIMAL; AORTA (analysis, metabolism); AORTA, ABDOMINAL (metabolism); AORTA, THORACIC (metabolism); CORONARY VESSELS (analysis, metabolism); DOGS; ELECTROPHORESIS, CELLULOSE ACETATE; ESTRADIOL (analogs & derivatives, pharmacodynamics); FEMALE; GLYCOSAMINOGLYCANS (analysis, metabolism); HYPOPHYSECTOMY; PROGESTERONE (pharmacodynamics); SEX HORMONES (pharmacodynamics); TESTOSTERONE (analogs & derivatives, pharmacodynamics).**

## Sitzmann FC

**[NONSPECIFIC ENZYME REACTIONS. THE EFFECT OF VARIOUS NONSPECIFIC FACTORS ON SERUM ENZYME FINDINGS]** Sitzmann FC *Med Klin* 73: 37-47, 13 Jan 78 (Ger) DL/78MAY389

**ADULT; ANESTHESIA; CHILD; DIABETES MELLITUS (enzymology); DIET; ENZYME TESTS; ENZYMES (blood); EXERTION; FEMALE; HUMAN; HYPERKALEMIA (enzymology); HYPOCALCEMIA (enzymology); INFANT, NEWBORN; MALE; MIDDLE AGE; PHARMACOLOGY; PREGNANCY; SHOCK (enzymology); SURGERY, OPERATIVE; THYROID DISEASES (enzymology).**

## Skorkowski EF

**HYPERGLYCEMIC HORMONE FROM THE EYESTALK OF THE SHRIMP CRANGON CRANGON.** Skorkowski EF, Rykiert M, Lipinska B *Gen Comp Endocrinol* 33: 460-6, Dec 77 (Eng) DL/78MAY307

**ANIMAL; EYE (physiology); FEMALE; HYPERGLYCEMIA (chemically induced); INVERTEBRATE HORMONES (isolation & purification, pharmacodynamics); MOLECULAR WEIGHT; NERVE TISSUE PROTEINS (pharmacodynamics, physiology); SHRIMP (physiology); SPECIES SPECIFICITY.**

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**ANIMAL; BIOLOGICAL TRANSPORT, ACTIVE; CELL MEMBRANE (drug effects, metabolism); GLUCOSE (metabolism); KIDNEY CORTEX (metabolism); KINETICS; OSMOLAR**

**CONCENTRATION; PROLINE (metabolism); RABBITS; SODIUM CHLORIDE (pharmacodynamics).**

## Slater EC

**MECHANISM OF OXIDATIVE PHOSPHORYLATION.** Slater EC *Annu Rev Biochem* 46: 1015-26, 1977 (Eng) [69 ref.] \*DL/78MAY164  
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**[DIABETES MELLITUS AND CARDIOVASCULAR SYSTEM DISEASES IN MIDDLE AGE]** Efimov AS, Gordienko VM, Slavnov VN, Sviateliuk GV, Kaminskii LA *Kardiologia* 17: 133-9, Nov 77 (Rus) DL/78MAY357

**[SOMATOTROPIC FUNCTION OF THE HYPOPHYSIS IN ENDOCRINE DISEASES]** Slavnov VN, Epshtein EV, Luchitskii EV, Malinkovich VD, Markov VV *Probl Endokrinol (Mosk)* 23: 29-35, Nov-Dec 77 (Rus) DL/78MAY416

**ADULT; BLOOD SUGAR (analysis); CHILD, PRESCHOOL; COMPARATIVE STUDY; ENDOCRINE DISEASES (physiopathology); ENGLISH ABSTRACT; GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (diagnostic use); PITUITARY GLAND (physiopathology); RADIOIMMUNOASSAY; SOMATOTROPIN (blood, secretion); TIME FACTORS.**

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**EFFECT OF INSULIN ON PROTEIN TURNOVER IN FOETAL LIMBS.** Chrystie S, Horn J, Sloan I, Stern M, Noakes D, Young M *Proc Nutr Soc* 36: 118a, Dec 77 (Eng) DL/78MAY429

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**[DEPENDENCE OF THE NATURE OF THE SUGAR CURVES ON THE CONSTITUTIONAL CHARACTERISTICS OF CHILDREN]** Slobodian LM, Korzhinskii IV *Pediatr Akush Ginekol* 18-9, May-Jun 77 (Ukr) \*DL/78MAY90

**ADOLESCENCE; BLOOD SUGAR (analysis); BODY CONSTITUTION; CHILD; CHOLECYSTITIS (blood); CHRONIC DISEASE; COMPARATIVE STUDY; GALACTOSE (diagnostic use); HUMAN; LIVER DISEASES (blood).**

## Smith G

**INTRAVENOUS DIAZOXIDE THERAPY IN HYPERTENSIVE CRISIS.** McDonald WJ, Smith G, Woods JW, Perry HM, Danielson BD *Am J Cardiol* 40: 409-15, Sep 77 (Eng) \*DL/78MAY147

## Smith PA

**COMPARISON OF THE EFFECT OF SOMATOSTATIN ON GASTROINTESTINAL FUNCTION IN THE CONSCIOUS AND ANAESTHETIZED CAT AND ON THE ISOLATED CAT PANCREAS.** Albinus M, Blair EL, Case RM, Coy DH, Gomez-Pan A, Hirst BH, Reed JD, Schally AV, Shaw B, Smith PA, Smy JR *J Physiol (Lond)* 269: 77-91, Jul 77 (Eng) \*DL/78MAY70

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**STIMULATION BY GASTRIC INHIBITORY POLYPEPTIDE OF INSULIN AND GLUCAGON SECRETION BY RAT ISLET CULTURES.** Fujimoto WY, Ensink JW, Merchant FW, Williams RH, Smith PH, Johnson DG *Proc Soc Exp Biol Med* 157: 89-93, Jan 78 (Eng) DL/78MAY432

## Smotlak A

**[VALUE OF URINARY ESTRIOL DETERMINATION IN PREGNANT WOMEN (AUTHORS TRANSL.)]** Toldy M, Lipensky S, Smotlak A, Novotna Z, Danko J *Bratisl Lek Listy* 68: 668-73, Dec 77 (Slo) DL/78MAY233

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**C-FRAGMENT OF LIPOTROPIN—AN ENDOGENOUS POTENT ANALGESIC PEPTIDE.** Feldberg W, Smyth DG *Br J Pharmacol* 60: 445-53, Jul 77 (Eng) \*DL/78MAY15

## Snyder G

**FUNCTIONAL HETEROGENEITY IN SOMATOTROPHS ISOLATED FROM THE RAT ANTERIOR PITUITARY.** Snyder G, Hymer WC, Snyder J *Endocrinology* 101: 788-99, Sep 77 (Eng) \*DL/78MAY26

**ANIMAL; CELL SEPARATION; CENTRIFUGATION, DENSITY GRADIENT; DIBUTYRYL CYCLIC AMP (pharmacodynamics); DOSE-RESPONSE RELATIONSHIP, DRUG; HYDROCORTISONE (pharmacodynamics); MALE; MICROSCOPY, ELECTRON; PITUITARY GLAND (metabolism); PITUITARY GLAND, ANTERIOR (cytology, metabolism); RATS; SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics); SOMATOTROPIN (secretion); THYROXINE (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H. ).**

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**NEW INSIGHTS INTO THE HOMEOSTASIS OF PLASMA CHOLESTEROL. A TIME FOR CHANGING CONCEPTS.** Sodhi HS, Mason DT *Am J Med* 63: 325-7, Sep 77 (Eng) \*DL/78MAY150

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## Soeldner JS

**CHRONOLOGIC AND PHYSIOLOGIC AGE AFFECT REPLICATIVE LIFE-SPAN OF FIBROBLASTS FROM DIABETIC, PRE-DIABETIC, AND NORMAL DONORS.** Goldstein S, Moerman EJ, Soeldner JS, Gleason RE, Barnett DM *Science* 199: 781-2, 17 Feb 78 (Eng) DL/78MAY446

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- METABOLISM.** Christie KE, Kjos B, Solberg CO *Acta Pathol Microbiol Scand [C] 85C: 284-8, Aug 77 (Eng)* \*DL/78MAY135
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- Soltakhanov RM**  
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- Sonksen PH**  
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- Sowter C**  
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- Spielman LL**  
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- Splitzer JA**  
**LIPOPROTEIN LIPASE ACTIVITY IN RAT HEART MYOCYTES.** Bagby GJ, Liu MS, Splitzer JA *Life Sci 21: 467-73, 1 Aug 77 (Eng)* \*DL/78MAY82
- Spoelstra AJ**  
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- Sprott GD**  
**A RELATION BETWEEN AMINO ACID HYDROPHOBICITY AND RATE OF UPTAKE IN ESCHERICHIA COLI.** Sprott GD, Wood JM, Martin WG, Schneider H *Biochem Biophys Res Commun 76: 1099-106, 20 Jun 77 (Eng)* \*DL/78MAY185  
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- Sramek SJ**  
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- Stanton KG**  
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- Stefan Y**  
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- Steffes MW**  
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## Stein JM

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## Stengel D

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## Stern M

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## Sternheim WL

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## Stewart DR

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 DIARRHEA, INFANTILE (diagnosis); ENZYME  
 TESTS; HUMAN; HYDROXYBUTYRATE  
 DEHYDROGENASE (blood); LACTATE  
 DEHYDROGENASE (blood).

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**THE BIOMEDICAL RESEARCH COMMUNITY: ITS PLACE IN CONSENSUS DEVELOPMENT.** Anonymous *JAMA* 239: 485-8, 6 Feb 78 (Eng) DL/78MAY348

CONTRACEPTION; DIABETIC RETINOPATHY (surgery); FEMALE; GLAUCOMA (diagnosis); HUMAN; MALE; MAMMOGRAPHY; MENOPAUSE; MYOCARDIAL INFARCT; OBESITY (therapy); PREGNANCY; PRENATAL DIAGNOSIS; PSYCHOSES, SENILE; RESEARCH; UNITED STATES NATIONAL INSTITUTES OF HEALTH; UNITED STATES.

**NEONATAL HYPOGLYCAEMIA AND NESIDIOBLASTOSIS [EDITORIAL]** Anonymous *Lancet* 1: 193-4, 28 Jan 78 (Eng) DL/78MAY371

HUMAN; HYPOGLYCEMIA (etiology); INFANT, NEWBORN; INFANT, NEWBORN, DISEASES (etiology); INSULIN (secretion); ISLANDS OF LANGERHANS; ISLET CELL TUMOR (complications); PANCREATIC NEOPLASMS (complications).

**PLATELETS, BETA-THROMBOGLOBULIN, AND DIABETES MELLITUS [EDITORIAL]** Anonymous *Lancet* 1: 250-1, 4 Feb 78 (Eng) DL/78MAY374

BETA GLOBULINS (analysis); BLOOD PLATELETS (physiology); DIABETES MELLITUS (blood); HUMAN; PLATELET AGGREGATION.

**FACITIOUS HYPOGLYCEMIA [LETTER]** Anonymous *N Engl J Med* 298: 515-6, 2 Mar 78 (Eng) DL/78MAY398

ADULT; C-PEPTIDE (blood); CASE REPORT; DIAGNOSIS, DIFFERENTIAL; FEMALE; HUMAN; HYPOGLYCEMIA (diagnosis); INSULIN (adverse effects).



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